

**SuccessMaker®**

LEARNING LED BY YOU.

**SuccessMaker Targeted Lessons**

# Multiplication and Division



**Show Me Cards**

**SuccessMaker®**

**SuccessMaker Targeted Lessons**  
**Multiplication and Division**



**Show Me Cards**

**SAVVAS**  
LEARNING COMPANY

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# Using the Show Me Cards

Show Me cards are used during the Show Me part of the lesson. The questions remind students of prerequisite concepts or skills or provide a familiar lead-in to the lesson. Students' responses will help you understand what to emphasize and how to pace the lesson. In some lessons, the Show Me ritual appears at the end of the lesson to solidify concepts. The Show Me part of the lesson should last no more than 5 minutes, so you may not use all the cards available for a lesson.

Students respond to Show Me questions on paper or quick response boards (white boards or other easily erasable surfaces) without conferring or talking. They hold up their responses so you can visually check answers. Be sure students write large enough for you to see!

## Preparation

These Show Me cards are foldables. Tear out the cards you will use in a lesson. Fold each one on the fold line in the middle of the page so that the question for students is on one side and the teaching suggestions and answers are on the other.

## Responding to Students

You will want to vary your responses, depending on students' answers. If students:

- **All have correct responses**, ask one student to explain how he or she got the answer.
- **Do not respond**, explain the method on the back of the card. The method may be an arithmetic procedure or it may be a pattern of thought that can lead to the answer for this type of problem.
- **All respond incorrectly**, ask one student to explain how he or she got the incorrect answer. Then say, *The correct answer is <answer>. Can anyone help us understand why this answer is different?* Then, if necessary, say, *Here is one way to solve the problem.* Explain the method written on the back of the card.
- **Have correct and incorrect responses**, you will want to vary your approach for the incorrect answers.
  - o **Approach 1** is the same as if all students answer incorrectly. Ask a student to explain how he or she got the incorrect answer. Then explain the method on the back of the card as one way to solve the problem.
  - o **Approach 2** is to ask a student with the correct response to explain his or her thinking. Ask others to explain in his or her own words what the first student said so that everyone understands that reasoning before you go on.

End the Show Me time after 3–5 minutes, even if students have not completed all the Show Me cards for the lesson. Ask students to work individually on the Show Me problem that is on the Student Practice page. Allow about 1 minute for this. While the group works, note errors or problems that you noticed and follow up with individuals at a later time.

# 6 groups of 6

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-1

Fold  
Here

6 groups of 6

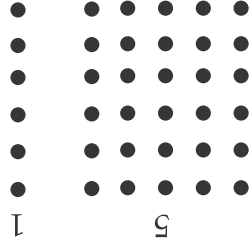
How much is 6 groups  
of 6? Show me your  
answer as an equation.

Correct Answer

$$6 \cdot 6 = 36$$

Instructional Strategies

- How much is 2 groups of 6? Use that result to find 6 groups of 6 (3 times as much, or 2 groups plus 2 groups plus 2 groups).
- Add one more group. Build from 5s.  
 $6 \times 6 = (5 \times 6) + (1 \times 6) = 30 + 6 = 36$
- Use an array:



# $42 = 6 \times ?$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-2

Fold  
Here

$$42 = 6 \times ?$$

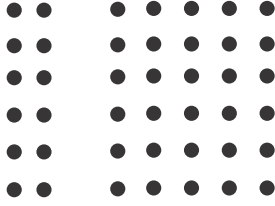
Forty-two is equal to  
6 times what number?  
Show me your answer  
as an equation.

Correct Answer

$$42 = 6 \times 7$$

### Instructional Strategies

- Use a fact you know to find a fact you do not know:  
What is  $6 \times 5$ ? (30) So  $6 \times 6$  is 6 more, or 36.  
And  $6 \times 7$  is 6 more, or 42.
- Use an array model.





# $6 \times \underline{\hspace{2cm}} = 54$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-3

Fold  
Here

$$6 \times \underline{\hspace{2cm}} = 54$$

Six times what number  
is 54? Show me your  
answer as an equation.

Correct Answer

$$6 \times 9 = 54$$

Instructional Strategies

- Think about the matching fact (commutative property):  
What number times 6 is equal to 54? Then skip-count by  
6s to 54 (9 times).
- Use a fact you know to find a fact you do not know:  
 $6 \times 10 = 60$ ,  $60 - 6 = 54$ ,  $6 \times 1 = 6$ .  
 $(6 \times 10) - (6 \times 1) = (6 \times 9) = 54$

$$18 = \underline{\quad} \times 6$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-4

Fold  
Here

$$6 \times \underline{\quad} = 18$$

Six times what number  
is 18? Show me your  
answer as an equation.

Correct Answer

$$6 \times \underline{3} = 18$$

Instructional Strategies

- Use a fact you know to find a fact you do not know:  
 $6 \times 2 = 12$ .  $18 - 12 = 6$ .  $6 \times 1 = 6$ .  
 $(6 \times 2) + (6 \times 1) = (6 \times 3) = 18$
- Use repeated addition:  $6 + 6 + 6 = 18$

# 4 × 6

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-5

Fold  
Here

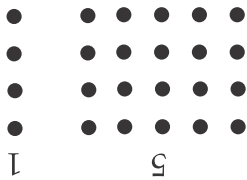
$$6 \times 4$$

How much is 6 times  
4? Show me your  
answer as an equation.

Correct Answer

$$6 \times 4 = 24$$

### Instructional Strategies

- Use facts you know to find a fact you do not know: Use the 5 times facts. Use the 1 times facts.
  - Use an array model.
- 
- Think about the matching fact (commutative property),  $4 \times 6$ , and then use the doubles: What is two 6s? What is four 6s?

$$6 \times \underline{\quad} = 0$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 1-6

Fold  
Here

Correct Answer

$$6 \times \bar{0} = 0$$

Instructional Strategies

- Use the zero property:  $n \times 0 = 0$  or  $0 \times n = 0$
- Use 6 rows of 0 objects.

$$6 \times \underline{\quad} = 0$$

Six times what number equals 0? Show me your answer as an equation.

$$12 \div 6 = \underline{\quad}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 2-1

Fold  
Here

Correct Answer

$$12 \div 6 = 2$$

Instructional Strategy

- Think multiplication: Six times what number equals 12? Then use the multiplication fact  $6 \times 2 = 12$ .

$$12 \div 6 = \underline{\quad}$$

Twelve divided by 6 equals what number? Show me your answer as an equation.

$$6 \cdot \underline{\quad} = 30$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 2-2

Fold  
Here

$$6 \cdot \underline{\quad} = 30$$

Six times what number  
is 30? Show me your  
answer as an equation.

Correct Answer

$$6 \cdot \underline{5} = 30$$

Instructional Strategies

- Think: Thirty ends in a 0, so 5 or 10 must be the factor.
- Think: Thirty is half of 60. Six times what number is 60? (10) What number is half of 10? (5)

# $6 \times ? = 36$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 2-3**

Fold  
Here

$$6 \times ? = 36$$

Six times what number equals 36? Show me your answer as an equation.

Correct Answer

$$6 \times 6 = 36$$

Instructional Strategy

- Use a fact you know to find a fact you do not know:  
 $6 \times 5 = 30$ ,  $30 + 6 = 36$ ,  $6 \times 1 = 6$ ,  
 $(6 \times 5) + (6 \times 1) = (6 \times 6) = 36$

# $9 \div 9 = ?$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 2-4

Fold  
Here

$6 \div 6 = ?$

Six divided by 6  
equals what number?  
Show me your answer  
as an equation.

Correct Answer

$$6 \div 6 = 1$$

### Instructional Strategies

- Think multiplication: Six times what number equals 6?  
Then use the multiplication fact  $6 \times 1 = 6$ .
- Use the property of division that any number divided by  
itself is 1.



$$\underline{\hspace{2cm}} \div 9 = 10$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 2-5

Fold  
Here

$$\underline{\hspace{1cm}} \div 6 = 10$$

What number divided  
by 6 equals 10? Show  
me your answer  
as an equation.

Correct Answer

$$\overline{60} \div 6 = 10$$

Instructional Strategy

- Think multiplication: Six times 10 equals what number?  
Then use the multiplication fact  $6 \times 10 = 60$ .

$$\begin{array}{r} 6 \\ \overline{) 9} \end{array}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 2-6

Fold  
Here

Correct Answer

$$\overline{54} \div 6 = 9$$

Instructional Strategy

- Think multiplication: Nine times 6 equals what number?  
Then use the multiplication fact  $9 \times 6 = 54$ .

What number divided  
by 6 equals 9? Show  
me your answer  
as an equation.

$$\begin{array}{r} 6 \\ \overline{) 9} \end{array}$$

# 2 • 7

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 3-1

Fold  
Here

$$7 \cdot 2$$

How much is 7 times  
2? Show me your  
answer as an equation.

Correct Answer

$$7 \cdot 2 = 14$$

### Instructional Strategies

- Think about the matching fact (commutative property),  $2 \times 7$ . Then use the doubles: What is two 7s? Or use repeated addition:  $7 + 7 = 14$ .
- Skip-count 7 times by 2s (to 14).
- Use an array model.



# $7 \cdot ? = 35$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 3-2

Fold  
Here

$$7 \cdot ? = 35$$

Seven times what  
number equals 35?  
Show me your answer  
as an equation.

Correct Answer

$$7 \cdot \bar{5} = 35$$

Instructional Strategy

- Think: Thirty-five ends in a 5, so try 5 as the factor.  
Skip-count by 5s to 35 (7 times).

$7 \times 7 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = 7 \times 7$

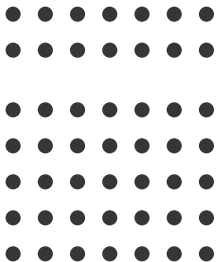
What number equals 7 times 7? Show me your answer as an equation.

Correct Answer

$\overline{49} = 7 \times 7$

Instructional Strategies

- Use facts you know to find a fact you do not know: Use the 5 times facts. Use the 2 times facts.
- Use an array model:



# $7 \times 100$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 3-4

Fold  
Here

$$7 \times 100$$

How much is 7 times  
100? Show me your  
answer as an equation.

Correct Answer

$$7 \times 100 = 700$$

Instructional Strategies

- Think about base-10 blocks: How many hundreds are there?
- Count 100, 200, 300, 400, 500, 600, 700.
- Know that 700 is the answer.

$$8 \times 7 =$$

$$\underline{\hspace{1cm}} = 7 \times 8$$

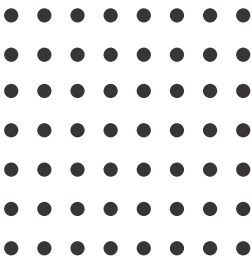
How much is 7 times  
8? Show me your  
answer as an equation.

Correct Answer

$$\overline{56} = 7 \times 8$$

Instructional Strategies

- Use facts you know to find a fact you do not know: Use the 5 times facts. Use the 2 times facts.
- Use an array model:



$$28 = \underline{\hspace{2cm}} \cdot 4$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 3-6

Fold  
Here

$$28 = \underline{\hspace{2cm}} \cdot 4$$

Twenty-eight equals  
what number times 4?  
Show me your answer  
as an equation.

Correct Answer

$$28 = 7 \cdot 4$$

### Instructional Strategies

- Skip-count by 4s to 28 (7 times).
- Use repeated addition:  $4 + 4 + 4 + 4 + 4 + 4 + 4 = 28$
- Use facts you know to find a fact you do not know: How much is  $5 \times 4$ ? (20) How much more do you need to make 28? (8) How many 4s is that? (2)
- $(5 \times 4) + (2 \times 4) = (7 \times 4)$
- $20 + 8 = 28$



# $8 \times \underline{\hspace{2cm}} = 64$

$$8 \times \underline{\hspace{2cm}} = 64$$

Eight times what number is 64? Show me your answer as an equation.

Correct Answer

$$8 \times \bar{8} = 64$$

### Instructional Strategies

- Use a fact you know to think about a fact you do not know:  $8 \times 4 = 32$ .  $32 + 32 = 64$ . So  $8 \times 8 = 64$ .
- Think about the matching fact (commutative property): What number times 8 is equal to 64? Then try doubling:  $2 \times 8 = 16$   
Double that:  $4 \times 8 = 32$   
Double that:  $8 \times 8 = 64$
- Think about the matching fact (commutative property): What number times 8 is equal to 64? Then use facts you know to find a fact you do not know:  
 $5 \times 8 = 40$ .  $40 + 24 = 64$ .  $3 \times 8 = 24$ .  
 $(5 \times 8) + (3 \times 8) = (8 \times 8) = 64$

$$0 = \underline{\hspace{2cm}} \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 4-2

Fold  
Here

Correct Answer

$$8 \times \bar{0} = 0$$

Instructional Strategies

- Use the zero property:  $n \times 0 = 0$  or  $0 \times n = 0$
- Think: 8 rows of 0 objects equals 0 objects.

Eight times what number equals 0? Show me your answer as an equation.

$$8 \times \underline{\hspace{2cm}} = 0$$

# 5 × 8

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 4-3**

Fold  
Here

$$8 \times 5$$

How much is 8 times  
5? Show me your  
answer as an equation.

Correct Answer

$$8 \times 5 = \underline{40}$$

Instructional Strategies

- Skip-count by 5s 8 times (to 40).
- Half of  $8 \times 10$  is  $8 \times 5$ . Half of 80 is 40.
- What do you know about the products of 5s facts? (The products end in 0 or 5.)

# $1 \times 8$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 4-4**

Fold  
Here

Correct Answer

$$8 \times 1 = 8$$

Instructional Strategy

- Use the identity property:  $n \times 1 = n$  or  $1 \times n = n$

$$8 \times 1$$

How much is 8 times  
1? Show me your  
answer as an equation.

# 72 =            • 9

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 4-5

Fold  
Here

$$72 = \underline{\hspace{1cm}} \cdot 9$$

Seventy-two equals  
what number times 9?  
Show me your answer  
as an equation.

Correct Answer

$$72 = 8 \cdot 9$$

### Instructional Strategies

- Use a fact you know to find a fact you do not know:  
 $10 \cdot 9 = 90$ ,  $72 + 18 = 90$ ,  $18 = 2 \cdot 9$   
 $(10 \cdot 9) - (2 \cdot 9) = (8 \cdot 9) = 72$
- Use the pattern in the 9s:

The other factor is 1 more than the number in the tens  
place (7) of the product. The factor is 8.

$$2 \cdot 8 = ?$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 4-6

Fold  
Here

$$? = 8 \cdot 2$$

What number equals 8 times 2? Show me your answer as an equation.

Correct Answer

$$\overline{16} = 8 \cdot 2$$

Instructional Strategies

- Skip-count 8 times by 2s (to 16).
- Use the doubles: What is  $8 + 8 = ?$

# 32

2 and 16      32 and 1

4 and 9      4 and 8

Correct Answer

4 and 9

Instructional Strategy

- Which two numbers when multiplied together do *not* give you the product 32?

Show me which of these pairs of numbers is *not* a factor pair of 32.

2 and 16    32 and 1  
4 and 9    4 and 8

## 32

# 18

2 and 8

3 and 6

9 and 2

18 and 1

Correct Answer

2 and 8

---

Instructional Strategy

- Which two numbers when multiplied together do *not* give you the product 18?

Show me which of these pairs of numbers is *not* a factor pair of 18.

18

2 and 8    3 and 6  
9 and 2    18 and 1



# 30

2 and 15      5 and 6

30 and 1      3 and 9

Correct Answer

3 and 9

Instructional Strategy

- Which two numbers when multiplied together do *not* give you the product 30?

Show me which of these  
pairs of numbers is *not*  
a factor pair of 30.

2 and 15    5 and 6  
30 and 1    3 and 9

## 30

# 42

7 and 7      2 and 21

1 and 42      3 and 14

Correct Answer

7 and 7

Instructional Strategy

- Which two numbers when multiplied together do *not* give you the product 42?

## 42

7 and 7    2 and 21  
1 and 42    3 and 14

Show me which of these  
pairs of numbers is *not*  
a factor pair of 42.

# 48

6 and 8      2 and 24

15 and 3      4 and 12

Correct Answer

15 and 3

Instructional Strategy

- Which two numbers when multiplied together do *not* give you the product 48?

## 48

Show me which of these pairs of numbers is *not* a factor pair of 48.

6 and 8    2 and 24  
15 and 3    4 and 12

4 times as many  
as 5 is 20.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 6-1

Fold  
Here

Correct Answer

$$4 \times 5 = 20$$

Instructional Strategies

- Which operation does "times as many" represent?
- What symbol does "is" represent?

4 times as many  
as 5 is 20.

Show me an equation  
for this word sentence.

# 54 is 9 times as much as 6.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 6-2

Fold Here

Correct Answer

$$54 = 9 \times 6$$

Instructional Strategies

- Which operation does "times as much" represent?
- What symbol does "is" represent?

54 is 9 times as much as 6.

Show me an equation for this word sentence.

# 36 is 6 times as great as $n$ .

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 6-3

Fold  
Here

36 is 6 times as great as  $n$ .

Show me an equation for this word sentence.

Correct Answer

$$36 = 6 \times n$$

Instructional Strategies

- Which operation does "times as great" represent?
- What symbol does "is" represent?

5 times as many  
as  $y$  is 50.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 6-4

Fold  
Here

Correct Answer

$$5 \times y = 50$$

Instructional Strategies

- Which operation does "times as many" represent?
- What symbol does "is" represent?

5 times as many  
as  $y$  is 50.

Show me an equation  
for this word sentence.

*t* times as many  
as 6 is 42.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 6-5

Fold  
Here

Correct Answer

$$t \times 6 = 42$$

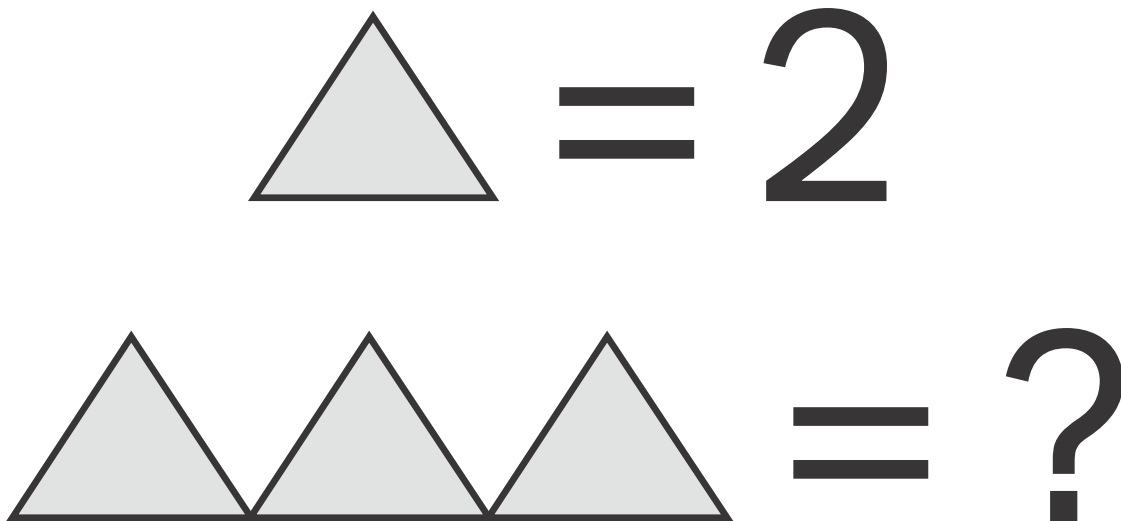
Instructional Strategies

- Which operation does "times as many" represent?
- What symbol does "is" represent?

*t* times as many  
as 6 is 42.

Show me an equation  
for this word sentence.





Correct Answer

6

Instructional Strategies

- What is the value of 1 symbol?
- How many symbols do you need to find the value of?
- How can you calculate the total value?

Show me the total  
value of the symbols.

A box containing a visual equation. On the left, a single triangle is followed by an equals sign and the number 2. On the right, three triangles are followed by an equals sign and a question mark.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 7-2

=

4

=

?

=

4

=

?

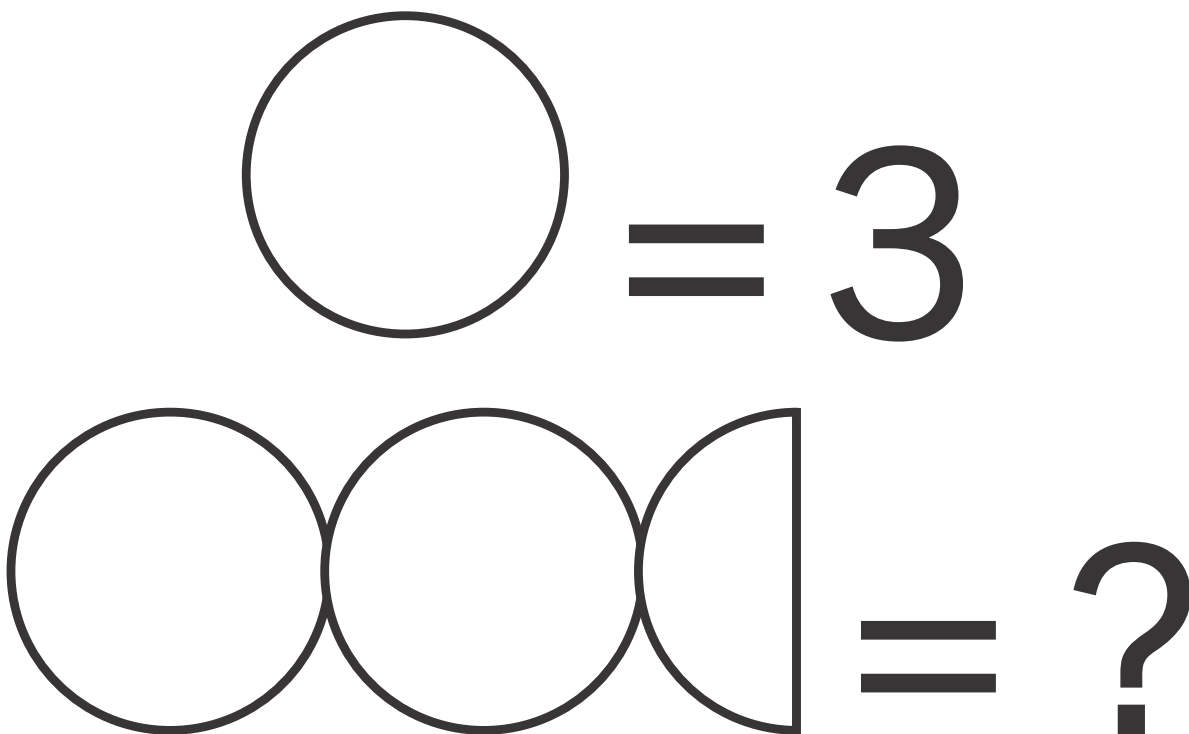
Show me the total value of the symbols.

Correct Answer

6

Instructional Strategies

- What is the value of 1 symbol?
- How many symbols do you need to find the value of?
- What is the value of half a symbol?
- How can you calculate the total value?



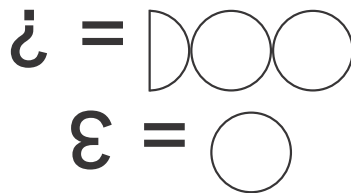
Correct Answer

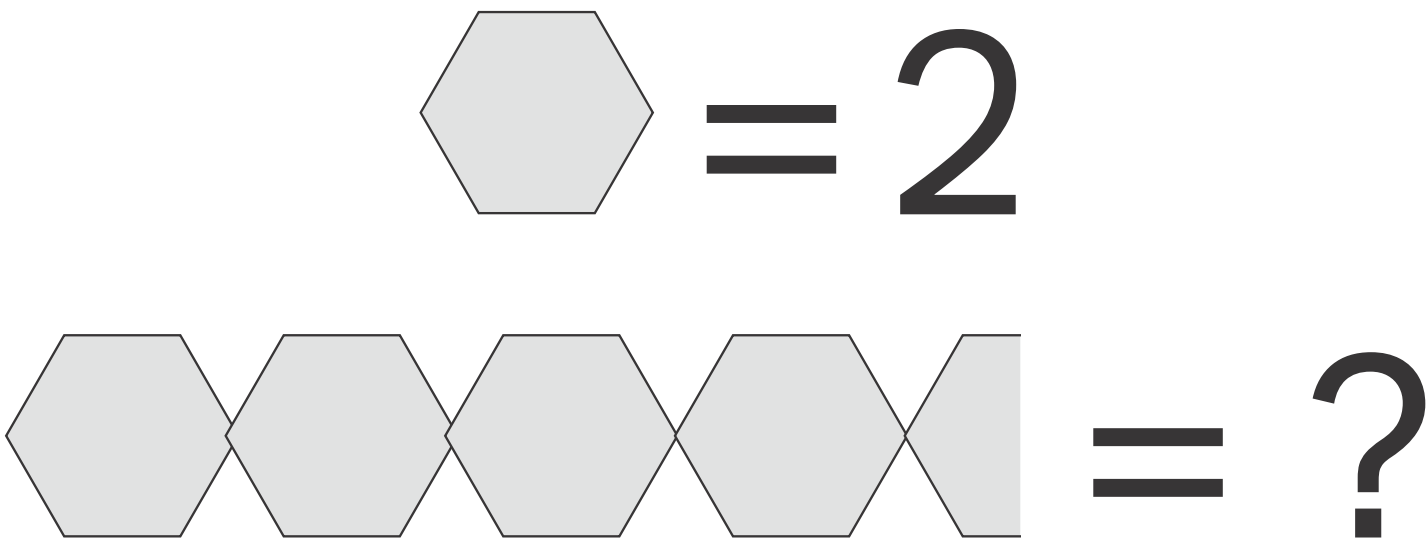
$$7\frac{1}{2}$$

Instructional Strategies

- What is the value of 1 symbol?
- How many symbols do you need to find the value of?
- What is the value of half a symbol?
- How can you calculate the total value?

Show me the total  
value of the symbols.



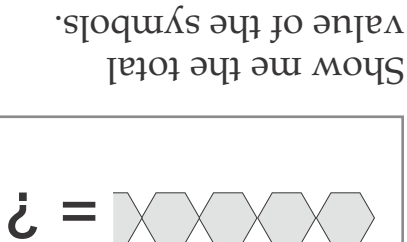


Correct Answer

9

Instructional Strategies

- What is the value of 1 symbol?
- How many symbols do you need to find the value of?
- What is the value of half a symbol?
- How can you calculate the total value?



Show me the total  
value of the symbols.

$$\begin{array}{c}
 \heartsuit = 5 \\
 \heartsuit \heartsuit \heartsuit \heartsuit = ?
 \end{array}$$

Show me the total value of the symbols.

$$\begin{array}{c}
 \heartsuit = 5 \\
 \heartsuit \heartsuit \heartsuit \heartsuit = ?
 \end{array}$$

Correct Answer

$$17\frac{1}{2}$$

Instructional Strategies

- What is the value of 1 symbol?
- How many symbols do you need to find the value of?
- What is the value of half a symbol?
- How can you calculate the total value?

# 8 ÷ 48 =

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 8-1

Fold  
Here

$$\underline{\quad} = 48 \div 8$$

What number equals  
48 divided by 8?  
Show me your answer  
as an equation.

Correct Answer

$$\overline{6} = 48 \div 8$$

Instructional Strategies

- Think multiplication: What number times 8 equals 48?
- Think multiplication: What number times 8 equals 48? Then use the multiplication fact  $6 \times 8 = 48$ .
- Think multiplication: What number times 8 equals 48? Then use known facts to find a fact you do not know:  
 $5 \times 8 = 40$ ,  $40 + 8 = 48$ ,  $1 \times 8 = 8$ ,  
 $(5 \cdot 8) + (1 \cdot 8) = (6 \cdot 8) = 48$

$$\begin{array}{r} 8 \overline{) 80} \end{array}$$

$$\begin{array}{r} 8 \overline{) 80} \end{array}$$

How much is 80 divided by 8? Show me your answer as an equation.

Correct Answer

$$80 \div 8 = 10$$

Instructional Strategies

- Think multiplication: Eight times what number equals 80? Then think about multiples of 10. Use the multiplication fact  $8 \times 10 = 80$ .
- Use place value: The value of each place is 10 times the value of the place to its right. So 8 in the tens place is 10 times 8 in the ones place.

# 56 ÷ 8

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 8-3

Fold  
Here

$$56 \div 8$$

How much is 56 divided by 8? Show me your answer as an equation.

Correct Answer

$$56 \div 8 = 7$$

Instructional Strategies

- Think multiplication: What number times 8 equals 56? Then use the multiplication fact  $7 \times 8 = 56$ .
- Think multiplication: What number times 8 equals 48? Then use known facts to find a fact you do not know:  
 $5 \cdot 8 = 40$ ,  $40 + 16 = 56$ ,  $2 \cdot 8 = 16$ .  
 $(5 \cdot 8) + (2 \cdot 8) = (7 \cdot 8) = 56$



# 8 ÷ 64

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 8-4

Fold  
Here

$$64 \div 8$$

Sixty-four divided by 8  
equals what number?  
Show me your answer  
as an equation.

Correct Answer

$$64 \div 8 = 8$$

Instructional Strategies

- Think multiplication: Eight times what number equals 64?  
Then use the multiplication fact  $8 \times 8 = 64$ .
- Think multiplication: What number times 8 equals 64?  
Then use known facts to find a fact you do not know:  
 $5 \cdot 8 = 40$ ,  $64 - 40 = 24$ ,  $3 \cdot 8 = 24$ .  
 $(5 \cdot 8) + (3 \cdot 8) = (8 \cdot 8) = 64$

$$\underline{\hspace{2cm}} \cdot 8 = 32$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 8-5**

Fold  
Here

$$\underline{\hspace{1cm}} \cdot 8 = 32$$

What number times 8 equals 32? Show me your answer as an equation.

Correct Answer

$$\bar{4} \cdot 8 = 32$$

Instructional Strategies

- Skip-count by 8s to 32 (4 times).
- Use facts you know to find a fact you do not know:  
 $2 \cdot 8 = 16$ ,  $16 + 16 = 32$ .  
 $(2 \cdot 8) + (2 \cdot 8) = (4 \cdot 8) = 32$

$$\underline{\hspace{2cm}} \cdot 8 = 24$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 8-6

Fold  
Here

$$24 = 8 \cdot \underline{\hspace{1cm}}$$

Twenty-four is equal to 8 times what number? Show me your answer as an equation.

Correct Answer

$$24 = 8 \cdot 3$$

Instructional Strategies

- Think about the matching fact (commutative property): Twenty-four is equal to what number times 8? How many 8s make 24?
- Use facts you know to find a fact you do not know:  
 $8 \times 2 = 16$ ,  $16 + 8 = 24$ ,  $8 \times 3 = 24$   
 $(8 \cdot 2) + (8 \cdot 1) = (8 \cdot 3) = 24$

# 6 • 9

## MULTIPLICATION AND DIVISION

## SHOW ME CARD MD 9-1

Fold  
Here

$$9 \cdot 9$$

How much is 9 times  
9? Show me your  
answer as an equation.

Correct Answer

$$9 \cdot 9 = 81$$

### Instructional Strategies

- Use facts you know to find a fact you do not know. Use the 10 times facts. Use the 1 times facts.
- $(10 \cdot 9) - (1 \cdot 9) = (9 \cdot 9)$
- $90 - 9 = 81$
- Use the pattern in the products for the 9s:  
The tens-place digit is one less than the other factor, and the sum of the digits is 9.

# $0 \times 6$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 9-2**

Fold  
Here

$$9 \times 0$$

How much is 9 times  
0? Show me your  
answer as an equation.

Correct Answer

$$9 \times 0 = 0$$

Instructional Strategies

- Use the zero property:  $n \times 0 = 0$ , or  $0 \times n = 0$
- Think: Use 0 rows of 9 objects.

$$2 \times 9 = ?$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 9-3**

Fold  
Here

$$? = 9 \times 2$$

What number equals 9 times 2? Show me your answer as an equation.

Correct Answer

$$\overline{18} = 9 \times 2$$

Instructional Strategies

- Think about the matching fact,  $2 \times 9$ .
- Skip-count 9 times by 2s (to 18).
- Use repeated addition:  $9 + 9 = 18$ .

$$36 = \underline{\hspace{2cm}} \times 4$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 9-4

Fold Here

$$36 = \underline{\hspace{2cm}} \times 4$$

Thirty-six equals what number times 4? Show me your answer as an equation.

Correct Answer

$$36 = 9 \times 4$$

Instructional Strategies

- Skip-count by 4s to 36, keeping track on your fingers.
- Use repeated addition:  
 $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 = 36$
- Use a fact you know to find a fact you do not know:  
 $10 \times 4 = 40$ . 36 is 4 less than 40.  $36 = 9 \times 4$ .

$$9 \times 1 = ?$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 9-5**

Fold  
Here

$$9 \times 1 = ?$$

Nine times 1 equals what number? Show me your answer as an equation.

Correct Answer

$$9 \times 1 = 9$$

Instructional Strategy

- Use the identity property:  $n \times 1 = n$  or  $1 \times n = n$



# 10 • 9

## MULTIPLICATION AND DIVISION

SHOW ME CARD **MD 9-6**

Fold  
Here

$$9 \cdot 10$$

How much is 9 times  
10? Show me your  
answer as an equation.

Correct Answer

$$9 \cdot 10 = \overline{90}$$

Instructional Strategies

- Think about multiples of 10.
- Skip-count by 10s to 90 (9 times).

# 3 × \_ = 21

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-1

Fold  
Here

$$3 \times \underline{\quad} = 21$$

Three times what  
number equals 21?  
Show me your answer  
as an equation.

Correct Answer

$$3 \times 7 = 21$$

Instructional Strategies

- Think about the matching fact (commutative property):  
What number times 3 is equal to 21? Then skip-count by  
3s to 21 (7 times).
- Think about the matching fact (commutative property).  
Then use facts you know to find a fact you do not know:  
 $3 \times 5 = 15$ .  $21 - 15 = 6$ .  $3 \times 2 = 6$ .  
 $(3 \times 5) + (3 \times 2) = (3 \times 7) = 21$

# 8 • 3 = ?

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-2

Fold  
Here

$$? = 3 \cdot 8$$

What number equals 3 times 8? Show me your answer as an equation.

Correct Answer

$$\overline{24} = 3 \cdot 8$$

Instructional Strategies

- Think about the matching fact (commutative property),  $8 \times 3$ , and then skip count 8 times by 3s (to 24).
- Think about the matching fact,  $8 \times 3$ , and then use the doubles:  $4 \times 3 = 12$  so  $8 \times 3 = 24$ .
- Use repeated addition:  $8 + 8 + 8 = 24$

$$5 \cdot 3 = ?$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-3

Fold  
Here

$$? = 3 \cdot 5$$

What number is equal to 3 times 5? Show me your answer as an equation.

### Methods

- Skip-count by 5s to 15 (3 times).
- Use repeated addition:  $5 + 5 + 5 = 15$

### Correct Answer

$$\overline{15} = 3 \cdot 5$$

# $30 = 3 \times ?$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-4

Fold  
Here

$$30 = 3 \times ?$$

Thirty is equal to 3  
times what number?  
Show me your answer  
as an equation.

Correct Answer

$$30 = 3 \times 10$$

Instructional Strategies

- Think about multiples of 10.
- Think: Thirty ends in a 0, so 5 or 10 must be the factor.

$$9 = 3 \cdot ?$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-5

Fold  
Here

$$9 = 3 \cdot ?$$

Nine is equal to 3  
times what number?  
Show me your answer  
as an equation.

Correct Answer

$$9 = 3 \cdot 3$$

Instructional Strategies

- Skip-count by 3s to 9 (3 times).
- Use repeated addition:  $3 + 3 + 3 = 9$

? groups of 2 = 6

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 10-6

Fold  
Here

? groups of 2 = 6

How many groups of 2  
equal 6? Show me your  
answer as an equation.

Correct Answer

$$\overline{3} \times 2 = 6$$

Instructional Strategies

- Skip-count by 2s to 6 (3 times).

- Use an array model.



- Discuss counting strategies, for example, count 6 (for the first column), then 2 more, and 2 more, until you get to 6.
- Use repeated addition:  $2 + 2 + 2 = 6$

$$6 \cdot \underline{\quad} = 30$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-1

Fold  
Here

Correct Answer

$$6 \cdot \bar{5} = 30$$

Instructional Strategies

- Think: Thirty ends in a 0, so 5 or 10 must be the factor.
- Think: Thirty is half of 60. Six times 10 is 60, so 6 times 5 is 30.

Six times what number equals 30? Show me your answer as an equation.

$$6 \cdot \underline{\quad} = 30$$



$$5 \cdot ? = 10$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-2

Fold  
Here

$$5 \cdot ? = 10$$

Five times what number equals 10? Show me your answer as an equation.

Correct Answer

$$5 \cdot 2 = 10$$

Instructional Strategy

- Think about the matching fact (commutative property): What number times 5 is equal to 10? Then skip-count by 5s to 10 (2 times).

# $50 = 5 \times ?$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-3

Fold  
Here

$$50 = 5 \times ?$$

Fifty is equal to 5  
times what number?  
Show me your answer  
as an equation.

Correct Answer

$$50 = 5 \cdot 10$$

Instructional Strategies

- Think about multiples of 10.
- Think: Fifty ends in a 0, so 5 or 10 must be the factor.
- Use the multiplication fact  $5 \times 10 = 50$ .
- Think about the matching fact (commutative property):  
Fifty is equal to what number times 5? Then skip-count  
by 5s to 50 (10 times).

$$\begin{array}{r} 5 \overline{)0} \end{array}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-4

Fold  
Here

Correct Answer

$$0 \div 5 = \bar{0}$$

Instructional Strategy

- Use the zero property:  $n \times 0 = 0$  or  $0 \times n = 0$

$$\begin{array}{r} 5 \overline{)0} \end{array}$$

Zero divided by 5  
equals what number?  
Show me your answer  
as an equation.

$$25 = \underline{\hspace{2cm}} \cdot 5$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-5

Fold  
Here

$$25 = \underline{\hspace{2cm}} \cdot 5$$

Twenty-five is equal to  
what number times 5?  
Show me your answer  
as an equation.

Correct Answer

$$25 = \bar{5} \cdot 5$$

Instructional Strategies

- Skip-count by 5s to 25 (5 times).
- Think: Twenty-five ends in a 5, so try 5 as the factor.

$$\underline{\hspace{2cm}} \times 7 = 35$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 11-6

Fold  
Here

$$\underline{\hspace{2cm}} \times 7 = 35$$

What number times 7  
is equal to 35? Show  
me your answer  
as an equation.

Correct Answer

$$\underline{5} \times 7 = 35$$

Instructional Strategies

- Skip-count by 7s to 35 (5 times).
- Think: Thirty-five ends in a 5, so try 5 as the factor.

# 2 groups of 6 = ?

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-1

Fold  
Here

2 groups of 6 = ?

Two groups of 6 is  
equal to what number?  
Show me your answer  
as an equation.

Correct Answer

$$2 \cdot 6 = 12$$

Instructional Strategy

- Use addition:  $6 + 6 = 12$

$$\underline{\hspace{2cm}} \times 2 = 0$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-2

Fold  
Here

$$\underline{\hspace{2cm}} \times 2 = 0$$

What number times 2 equals 0? Show me your answer as an equation.

Correct Answer

$$0 \times 2 = 0$$

Instructional Strategy

- Use the zero property:  $n \times 0 = 0$  or  $0 \times n = 0$

$$4 = ? \cdot 2$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-3

Fold Here

$$4 = ? \cdot 2$$

Four equals what number times 2? Show me your answer as an equation.

Correct Answer

$$4 = 2 \cdot 2$$

Instructional Strategies

- Skip-count by 2s to 4 (2 times).
- Use repeated addition:  $2 + 2 = 4$



# 1 ÷ ? = 2

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-4

Fold  
Here

$$2 = ? \div 1$$

Two is equal to what  
number divided by 1?  
Show me your answer  
as an equation.

Correct Answer

$$2 = \bar{2} \div 1$$

Instructional Strategy

- Think multiplication: Two times 1 equals what number?  
Then use the multiplication fact  $2 \times 1 = 2$ .
- Think multiplication: Use the identity property:  
 $n \times 1 = n$  or  $1 \times n = n$

$$\begin{array}{r} 2 \overline{)10} \end{array}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-5

Fold  
Here

$$\begin{array}{r} 2 \overline{)10} \end{array}$$

How much is 10 divided  
by 2? Show me your  
answer as an equation.

Correct Answer

$$10 \div 2 = 5$$

Instructional Strategies

- Think multiplication: What number times 2 equals 10? Then use the multiplication fact  $2 \times 5 = 10$ .
- Dividing by 2 means splitting a group in half. Think: Half of 10 is 5.
- Use an array model: split 10 into 2 rows of 5.

# 18 ÷ 2 =

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 12-6

Fold  
Here

Correct Answer

$$18 \div 2 = 9$$

Instructional Strategies

- Think multiplication: Two times what number equals 18? Then use the multiplication fact  $2 \times 9 = 18$ .
- Dividing by 2 means splitting a group in half. Think: Half of 18 is 9.
- Use an array model: Split 18 into 2 rows.

What number equals  
18 divided by 2?  
Show me your answer  
as an equation.

$$18 \div 2 = \underline{\quad}$$

# 7, 8, and 56

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 13-1

Fold  
Here

7, 8, and 56

Show me all the  
multiplication and  
division equations you  
can write using the  
numbers 7, 8, and 56.

Correct Answer

$7 \times 8 = 56$ ,  $8 \times 7 = 56$ ,  $56 \div 8 = 7$ ,  $56 \div 7 = 8$ ,  
 $56 = 7 \times 8$ ,  $56 = 8 \times 7$ ,  $7 = 56 \div 8$ ,  $8 = 56 \div 7$

Instructional Strategies

- How many different multiplication equations can you write?
- How many different division equations can you write?
- Why can you write the product and quotient on either side of the equals sign?

# 27, 9, and 3

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 13-2

Fold  
Here

27, 9, and 3

Show me all the  
multiplication and  
division equations you  
can write using the  
numbers 27, 9, and 3.

## Instructional Strategies

- Where do you see the product in your division equations?
- Where do you see the factors in your division equations?

## Correct Answer

$$3 \times 9 = 27, 9 \times 3 = 27, 27 \div 9 = 3, 27 \div 3 = 9, \\ 27 = 3 \times 9, 27 = 9 \times 3, 3 = 27 \div 9, 9 = 27 \div 3$$

# 6, 36, and 6

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 13-3

Fold  
Here

6, 36, and 6

Show me all the  
multiplication and  
division equations you  
can write using the  
numbers 6, 36, and 6.

Correct Answer

$$6 \times 6 = 36, 36 \div 6 = 6, 36 = 6 \times 6, 6 = 36 \div 6$$

Instructional Strategies

- How many multiplication and division equations can you write using these three numbers?
- Why are there only four equations when you wrote eight for the previous card?
- What other three numbers would have only four related multiplication and division equations?

# 7, 28, and 4

## MULTIPLICATION AND DIVISION

## SHOW ME CARD MD 13-4

7, 28, and 4

Show me all the multiplication and division equations you can write using the numbers 7, 28, and 4.

### Correct Answer

$$7 \times 4 = 28, 4 \times 7 = 28, 28 \div 4 = 7, 28 \div 7 = 4, \\ 28 = 7 \times 4, 28 = 4 \times 7, 7 = 28 \div 4, 4 = 28 \div 7$$

### Instructional Strategies

- Where do you see the quotient in your multiplication equations?
- Where do you see the dividend in your multiplication equations?
- Where do you see the divisor in your multiplication equations?

# 72, 8, and 9

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 13-5

Fold  
Here

72, 8, and 9

Show me all the  
multiplication and  
division equations you  
can write using the  
numbers 72, 8, and 9.

### Instructional Strategies

- What advice would you give someone who found only two multiplication equations and two division equations for these numbers?
- What strategy can you use to find all the equations?

### Correct Answer

$$9 \times 8 = 72, 8 \times 9 = 72, 72 \div 8 = 9, 72 \div 9 = 8, \\ 72 = 9 \times 8, 72 = 8 \times 9, 9 = 72 \div 8, 8 = 72 \div 9$$



$$n \cdot 5 = 45$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 14-1

Fold  
Here

$$n \cdot 5 = 45$$

Show me what number  $n$  equals. What division equation can you use to solve it?

Correct Answer

$$n = 9; 45 \div 5 = 9$$

Instructional Strategies

- What operation does the  $\bullet$  represent?
- How can you find the value of  $n$ ?
- Where is the factor 5 in your division equation?
- Where is the product 45 in your division equation?
- Where is the factor  $n$  in your division equation?

# $6x = 42$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 14-2

Fold  
Here

$$6x = 42$$

Show me what number  $x$  equals. What division equation can you use to solve it?

Correct Answer

$$x = 7; 42 \div 6 = 7$$

Instructional Strategies

- How would you read this equation?
- How can you find the value of  $x$ ?
- Where is the factor 6 in your division equation?
- Where is the product 42 in your division equation?
- Where is the factor  $x$  in your division equation?

$$21 = c \times 3$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 14-3

Fold  
Here

$$21 = c \times 3$$

Show me what number  $c$  equals. What division equation can you use to solve it?

Correct Answer

$$c = 7; 21 \div 3 = 7$$

Instructional Strategies

- How can you find the value of  $c$ ?
- Where is the factor 3 in your division equation?
- Where is the product 21 in your division equation?
- Where is the factor  $c$  in your division equation?

$$2 \cdot y = 18$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 14-4

Fold  
Here

$$2 \cdot y = 18$$

Show me what number  $y$  equals. What division equation can you use to solve it?

Correct Answer

$$y = 9; 18 \div 2 = 9$$

Instructional Strategies

- How can you find the value of  $y$ ?
- Where is the factor 2 in your division equation?
- Where is the product 18 in your division equation?
- Where is the factor  $y$  in your division equation?

# $49 = 7b$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 14-5

Fold  
Here

$$49 = 7b$$

Show me what number  $b$  equals. What division equation can you use to solve it?

Correct Answer

$$b = 7; 49 \div 7 = 7$$

Instructional Strategies

- How can you find the value of  $b$ ?
- Where is the factor 7 in your division equation?
- Where is the product 49 in your division equation?
- Where is the factor  $b$  in your division equation?

$$b + 34 = 69$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 15-1

Fold  
Here

$$b + 34 = 69$$

Show me what  
number  $b$  equals. What  
subtraction equation  
can you use to solve it?

Correct Answer

$$b = 35; 69 - 34 = 35$$

Instructional Strategies

- Where is the addend 34 in your subtraction equation?
- Where is the total 69 in your subtraction equation?
- Where is the addend  $b$  in your subtraction equation?

$$105 = 72 + c$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 15-2

Fold  
Here

$$105 = 72 + c$$

Show me what  
number  $c$  equals. What  
subtraction equation  
can you use to solve it?

Correct Answer

$$c = 33; 105 - 72 = 33$$

Instructional Strategies

- Where is the addend 72 in your subtraction equation?
- Where is the total 105 in your subtraction equation?
- Where is the addend  $c$  in your subtraction equation?

$$77 + y = 124$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 15-3

Fold  
Here

$$77 + y = 124$$

Show me what  
number  $y$  equals. What  
subtraction equation  
can you use to solve it?

Correct Answer

$$y = 47; 124 - 77 = 47$$

Instructional Strategies

- Where is the addend 77 in your subtraction equation?
- Where is the total 124 in your subtraction equation?
- Where is the addend  $y$  in your subtraction equation?



$$205 = n + 100$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 15-4

Fold  
Here

$$205 = n + 100$$

Show me what  
number  $n$  equals. What  
subtraction equation  
can you use to solve it?

Correct Answer

$$n = 105; 205 - 100 = 105$$

Instructional Strategies

- Where is the addend 100 in your subtraction equation?
- Where is the total 205 in your subtraction equation?
- Where is the addend  $n$  in your subtraction equation?

$$f + 32 = 91$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 15-5

Fold  
Here

$$f + 32 = 91$$

Show me what  
number  $f$  equals. What  
subtraction equation  
can you use to solve it?

Correct Answer

$$f = 59; 91 - 32 = 59$$

Instructional Strategies

- Where is the addend 32 in your subtraction equation?
- Where is the total 91 in your subtraction equation?
- Where is the addend  $f$  in your subtraction equation?

Mrs. Chi buys some snack bars. There are 54 snack bars without nuts and 18 snack bars with nuts. How many snack bars does Mrs. Chi buy?

Correct Answer

$$54 + 18 = n$$

Instructional Strategies

- What are the known quantities?
- What is the unknown quantity?
- What operation (addition, subtraction, multiplication, division) can you use to solve the problem?

Mrs. Chi buys some snack bars. There are 54 snack bars without nuts and 18 snack bars with nuts. How many snack bars does Mrs. Chi buy?

Show me an equation you can write to solve the word problem. Use  $n$  to represent the unknown quantity.

If 64 cans of tuna are arranged into 8 equal rows, how many cans of tuna are in each row?

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 16-2

Fold Here

Possible Answers

$$8 \times n = 64; 64 \div 8 = n$$

Instructional Strategies

- What are the known quantities?
- What is the unknown quantity?
- What operation (addition, subtraction, multiplication, division) can you use to solve the problem?

If 64 cans of tuna are arranged into 8 equal rows, how many cans of tuna are in each row?

Show me an equation you can write to solve the word problem. Use  $n$  to represent the unknown quantity.

Josh picks 24 fewer  
oranges than Anthony.  
Anthony picks 53 oranges.  
How many oranges does  
Josh pick?

Possible Answers

$$53 - 24 = n; n + 24 = 53$$

Instructional Strategies

- What are the known quantities?
- What is the unknown quantity?
- What operation (addition, subtraction, multiplication, division) can you use to solve the problem?

Josh picks 24 fewer  
oranges than Anthony.  
Anthony picks 53 oranges.  
How many oranges does  
Josh pick?

Show me an equation  
you can write to solve  
the word problem.  
Use  $n$  to represent the  
unknown quantity.

If 42 shirts are to be  
packed 6 to a box,  
then how many boxes  
are needed?

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 16-4

Fold  
Here

If 42 shirts are to be  
packed 6 to a box,  
then how many boxes  
are needed?

Show me an equation  
you can write to solve  
the word problem.  
Use  $n$  to represent the  
unknown quantity.

### Possible Answers

$$n \times 6 = 42; 42 \div 6 = n$$

### Instructional Strategies

- What are the known quantities?
- What is the unknown quantity?
- What operation (addition, subtraction, multiplication, division) can you use to solve the problem?

Show me an equation you can write to solve the word problem. Use  $n$  to represent the unknown quantity.

The flower bed at the park measures 8 feet long and 3 feet wide. What is the area of the flower bed?

Correct Answer

$$8 \times 3 = n$$

Instructional Strategies

- What are the known quantities?
- What is the unknown quantity?
- What operation (addition, subtraction, multiplication, division) can you use to solve the problem?

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 16-5

Fold Here

The flower bed at the park measures 8 feet long and 3 feet wide. What is the area of the flower bed?

$$4 \times 4 \quad \underline{\quad} \quad 6 \times 3$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 17-1

Fold  
Here

Correct Answer

$<$  (less than)

Instructional Strategies

- If you can, do the multiplication facts in your head.
- If you do not know one of these multiplication facts, can you use a fact you do know to find it?
- Use the correct  $>$  or  $<$  symbol. The greater number goes at the wide end of  $<$  or  $>$ .

Show me the symbol (greater than or less than) that makes the statement true.

$$4 \times 4 \quad \underline{\quad} \quad 6 \times 3$$



$$6 \times 7 \quad \underline{\quad} \quad 5 \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 17-2

Fold  
Here

$$6 \times 7 \quad \underline{\quad} \quad 5 \times 8$$

Show me the symbol  
(greater than or less  
than) that makes the  
statement true.

Correct Answer

$>$  (greater than)

Instructional Strategies

- If you can, do the multiplication facts in your head.
- If you do not know one of these multiplication facts, can you use a fact you do know to find it?
- Use the correct  $>$  or  $<$  symbol. The greater number goes at the wide end of  $>$  or  $<$ .

$$6 \times 9 \quad \underline{\quad} \quad 7 \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 17-3

Fold  
Here

$$7 \times 8 \quad \underline{\quad} \quad 6 \times 9$$

Show me the symbol  
(greater than or less  
than) that makes the  
statement true.

Correct Answer

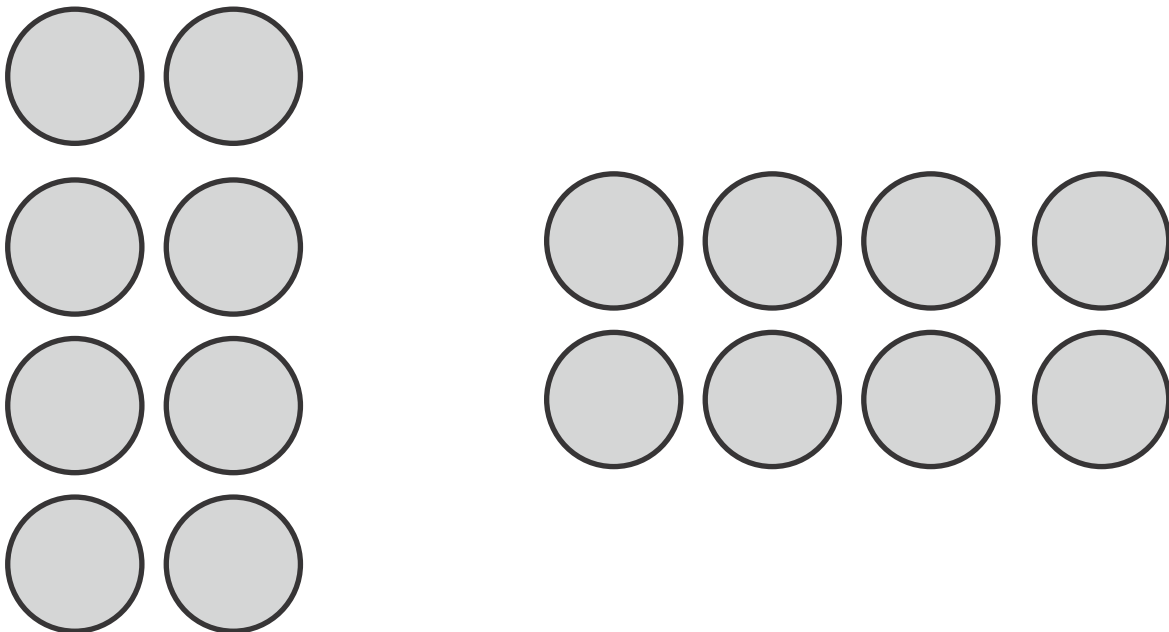
$>$  (greater than)

Instructional Strategies

- If you can, do the multiplication facts in your head.
- If you do not know one of these multiplication facts, can you use a fact you do know to find it?
- Use the correct  $>$  or  $<$  symbol. The greater number goes at the wide end of  $>$  or  $<$ .

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 17-4

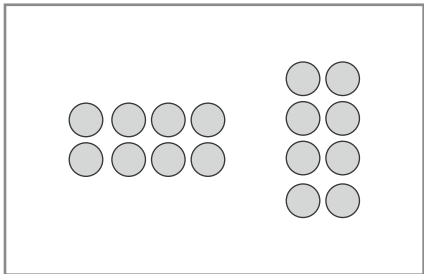


Correct Answer

$$4 \times 2 = 8, 2 \times 4 = 8$$

Instructional Strategies

- The commutative property says that you can change the order of the factors when you multiply and get the same product.
- How many rows are there in the left diagram? How many columns?
- How many rows are there in the right diagram? How many columns?
- What are the factors in a multiplication statement for the left diagram? For the right diagram?



Show me a multiplication equation for each array.

MULTIPLICATION AND DIVISION

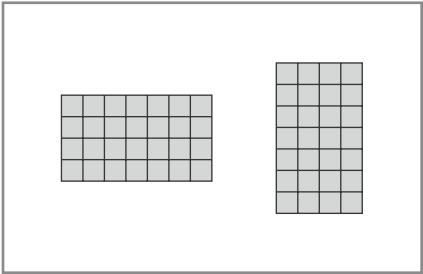
SHOW ME CARD MD 17-5

Correct Answer

$4 \times 7 = 28, 7 \times 4 = 28$

Instructional Strategies

- The commutative property says that you can change the order of the factors when you multiply and get the same product.
- How many rows are there in the left diagram? How many columns?
- How many rows are there in the right diagram? How many columns?
- What are the factors in a multiplication statement for the left diagram? For the right diagram?



Show me a multiplication equation for each array.

# 3 groups of 7

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 18-1

Fold  
Here

3 groups of 7

Show me how many  
there are in all.

Correct Answer

21

Instructional Strategies

- How would you draw a picture of this problem?
- What operations would you use to solve this problem?

# 8 groups of 6

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 18-2

Fold  
Here

8 groups of 6

Show me how many  
there are in all.

Correct Answer

48

Instructional Strategies

- How would you draw a picture of this problem?
- What operations would you use to solve this problem?

7 groups of 7

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 18-3

Fold  
Here

Correct Answer

49

Instructional Strategies

- How would you draw a picture of this problem?
- What operations would you use to solve this problem?

7 groups of 7

Show me how many  
there are in all.

$$8 \times 6$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 18-4

Fold  
Here

$$9 \times 8$$

Show me the answer  
to the multiplication  
problem.

Correct Answer

72

Instructional Strategy

- How would you draw a picture of this problem?



$$6 \times 5$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 18-5

Fold  
Here

Correct Answer

30

Instructional Strategy

- How would you draw a picture of this problem?

$$6 \times 5$$

Show me the answer  
to the multiplication  
problem.

$$(4 \times 2) \times \underline{\hspace{1cm}} = 4 \times (2 \times 2)$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 19-1

Fold  
Here

$$(2 \times 2) \times 4 = \underline{\hspace{1cm}} \times (2 \times 4)$$

Show me the  
missing number.

Correct Answer

2

Instructional Strategies

- In the expression before the equals sign, which numbers would you multiply first?
- In the expression after the equals sign, which numbers would you multiply first?
- Do you get the same product whichever way you multiply?

$$(\quad) \times 3 = 2 \times 3 \times 3$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 19-2

Fold  
Here

$$(2 \times 3) \times 3 = 2 \times (3 \times \underline{\quad})$$

Show me the  
missing number.

Correct Answer

3

### Instructional Strategies

- In the expression before the equals sign, which numbers would you multiply first?
- In the expression after the equals sign, which numbers would you multiply first?
- Do you get the same product whichever way you multiply?

$$(2 \times \underline{\hspace{1cm}}) \times 4 = 2 \times (2 \times 4)$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 19-3

Fold  
Here

$$(4 \times 2) \times 2 = 4 \times (\underline{\hspace{1cm}} \times 2)$$

Show me the  
missing number.

Correct Answer

2

Instructional Strategies

- In the expression before the equals sign, which numbers would you multiply first?
- In the expression after the equals sign, which numbers would you multiply first?
- Do you get the same product whichever way you multiply?

$$(2 \times 3) \times 2 = 3 \times (2 \times 2)$$

# MULTIPLICATION AND DIVISION

## SHOW ME CARD MD 19-4

Fold  
Here

$$(2 \times \underline{\hspace{1cm}}) \times 3 = 2 \times (2 \times 3)$$

Show me the  
missing number.

Correct Answer

2

### Instructional Strategies

- In the expression before the equals sign, which numbers would you multiply first?
- In the expression after the equals sign, which numbers would you multiply first?
- Do you get the same product whichever way you multiply?

$$(\quad) \times 3 \times 2 = 3 \times (3 \times 2)$$

# MULTIPLICATION AND DIVISION

## SHOW ME CARD MD 19-5

Fold  
Here

$$(\quad) \times 3 \times 2 = 3 \times (3 \times 2)$$

Show me the  
missing number.

Correct Answer

3

### Instructional Strategies

- In the expression before the equals sign, which numbers would you multiply first?
- In the expression after the equals sign, which numbers would you multiply first?
- Do you get the same product whichever way you multiply?

$$3 \times 9 = \underline{\hspace{2cm}}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 20-1

Fold  
Here

$$3 \times 9 = \underline{\hspace{2cm}}$$

Show me the product.

Correct Answer

27

Instructional Strategies

- How much is 3 groups of 9?
- How much is  $2 \times 9$ ?
- How much is  $1 \times 9$ ?
- Use those facts to think about  $3 \times 9$ .

$$6 \times 7 = \underline{\quad}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 20-2

Fold  
Here

$$6 \times 7 = \underline{\quad}$$

Show me the product.

Correct Answer

42

Instructional Strategies

- How much is 6 groups of 7?
- How much is  $5 \times 7$ ?
- How much is  $1 \times 7$ ?
- Use those facts to think about  $6 \times 7$ .



$$7 \times 8 = \underline{\hspace{2cm}}$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 20-3

Fold  
Here

Show me the product.

$$7 \times 8 = \underline{\hspace{2cm}}$$

Correct Answer

56

Instructional Strategies

- How much is 7 groups of 8?
- How much is  $5 \times 8$ ?
- How much is  $2 \times 8$ ?
- Use those facts to think about  $7 \times 8$ .

$$\underline{\hspace{2cm}} = 8 \times 8$$

$$8 \times 8 = \underline{\hspace{2cm}}$$

Show me the product.

Instructional Strategies

- How much is 8 groups of 8?
- How much is 2  $\times$  8?
- Double that. How much is 4  $\times$  8?
- Double that. How much is 8  $\times$  8?

Correct Answer

64

$$\underline{\hspace{2cm}} = 6 \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 20-5

Fold  
Here

$$8 \times 9 = \underline{\hspace{2cm}}$$

Show me the product.

Correct Answer

72

Instructional Strategies

- How much is 8 groups of 9?
- How much is 8 groups of 10?
- You have 1 less in each of the 8 groups, so subtract 8.

20

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 21-1

Fold  
Here

20

Show me how many  
tens are in this number.

Correct Answer

2

Instructional Strategy

- How many groups of ten do you need to make 20?

90

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 21-2

Fold  
Here

Correct Answer

9

Instructional Strategy

- How many groups of ten do you need to make 90?

90

Show me how many  
tens are in this number.

60

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 21-3

Fold  
Here

Correct Answer

6

Instructional Strategy

- How many groups of ten do you need to make 60?

60

Show me how many  
tens are in this number.

80

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 21-4

Fold  
Here

Correct Answer

8

Instructional Strategy

- How many groups of ten do you need to make 80?

80

Show me how many  
tens are in this number.

50

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 21-5

Fold  
Here

Correct Answer

5

Instructional Strategy

- How many groups of ten do you need to make 50?

50

Show me how many  
tens are in this number.



$$(\quad) \times 3 + (\quad) \times 3 = 7 \times 3$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 22-1

Fold  
Here

$$3 \times 7 = (3 \times \_) + (3 \times \_)$$

Show me how to fill  
in the blanks to make  
this equation true.

### Instructional Strategies

- Do this in your head.
- Read this: 3 times 7 is the same as 3 times some number plus 3 times some number.
- Think about the distributive property. Break 7 into two parts to make two multiplication facts you can do easily in your head.

### Possible Answers

Accept any two numbers that sum  
to 7, such as  $(3 \times 5) + (3 \times 2)$ .

$$5 \times 11 = (5 \times \underline{\quad}) + (5 \times \underline{\quad})$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 22-2

Fold  
Here

$$5 \times 11 = (5 \times \underline{\quad}) + (5 \times \underline{\quad})$$

Show me how to fill  
in the blanks to make  
this equation true.

### Instructional Strategies

- Do this in your head.
- Read the equation to yourself.
- Think about the distributive property. Break 11 into two parts to make two multiplication facts you can do easily in your head.

### Possible Answers

Accept any two numbers that sum  
to 11, such as  $(5 \times 10) + (5 \times 1)$ .

$$(\_\times 8) + (\_\times 8) = 9 \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 22-3

Fold  
Here

$$8 \times 6 = (8 \times \_\) + (8 \times \_\)$$

Show me how to fill  
in the blanks to make  
this equation true.

### Instructional Strategies

- Do this in your head.
- Read the equation to yourself.
- Think about the distributive property. Break 6 into two parts to make two multiplication facts you can do easily in your head.

### Possible Answers

Accept any two numbers that sum  
to 6, such as  $(8 \times 5) + (8 \times 1)$ .

$$(\_\times 7) - (\_\times 7) = 6 \times 7$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 22-4

Fold  
Here

$$7 \times 9 = (7 \times \_\) - (7 \times \_\)$$

Show me how to fill  
in the blanks to make  
this equation true.

### Instructional Strategies

- Do this in your head.
- Read the equation to yourself.
- Think about the distributive property. Using subtraction means that you need to think of two numbers that you can subtract to get 9.

### Possible Answers

Accept any two numbers that have a  
difference of 9, such as  $(7 \times 10) - (7 \times 1)$ .

$$(\_\times 6) + (\_\times 6) = 6 \times 12$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 22-5

Fold  
Here

$$9 \times 12 = (9 \times \_) + (9 \times \_)$$

Show me how to fill  
in the blanks to make  
this equation true.

### Instructional Strategies

- Do this in your head.
- Read the equation to yourself.
- Think about the distributive property. Break 12 into two parts to make two multiplication facts you can do easily in your head.

### Possible Answers

Accept any two numbers that sum  
to 12, such as  $(9 \times 10) + (9 \times 2)$ .

# Find all the factors of 10.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 23-1

Fold Here

Correct Answer

1, 2, 5, 10

Instructional Strategies

- What number is a factor of every number?
- If the number is even, what number is a factor of that number?

Find all the factors of 10.

Show me all the factors of 10.

# Find all the factors of 12.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 23-2

Fold Here

Find all the factors of 12.

Show me all the factors of 12.

Correct Answer

1, 2, 3, 4, 6, 12

Instructional Strategies

- What number is a factor of every number?
- If the number is even, what number is a factor of that number?

# Find all the factors of 15.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 23-3

Find all the factors of 15.

Show me all the factors of 15.

Correct Answer

1, 3, 5, 15

Instructional Strategies

- What number is a factor of every number?
- What is the next largest number that divides 15?



# Find all the factors of 9.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 23-4

Fold Here

Find all the factors of 9.

Show me all the factors of 9.

Correct Answer

1, 3, 9

Instructional Strategies

- What number is a factor of every number?
- What is the next largest number that divides 9?

# Find all the factors of 16.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 23-5

Fold Here

Find all the factors of 16.

Show me all the factors of 16.

Correct Answer

1, 2, 4, 8, 16

Instructional Strategies

- What number is a factor of every number?
- If the number is even, what number is a factor of that number?

Find the related  
multiplication problem.

$$5 + 5 + 5 + 5$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 24-1

Fold  
Here

Correct Answer

$$4 \times 5$$

Instructional Strategies

- Think of how many of the same number are being added.

Show me the related  
multiplication problem.

Find the related  
multiplication problem.  
 $5 + 5 + 5 + 5$

Find the related  
multiplication problem.

$7 + 7 + 7$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 24-2

Fold  
Here

Correct Answer

$$3 \times 7$$

Instructional Strategies

- Think of how many of the same number are being added.

Show me the related  
multiplication problem.

Find the related  
multiplication problem.  
 $7 + 7 + 7$

Find the related  
multiplication problem.  
 $2 + 2 + 2 + 2 + 2 + 2 + 2$

Show me the related  
multiplication problem.

Find the related  
multiplication problem.  
 $2 + 2 + 2 + 2 + 2 + 2 + 2$

Correct Answer

$$7 \times 2$$

Instructional Strategies

- Think of how many of the same number are being added.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 24-3

Fold  
Here

Find the related  
multiplication problem.  
 $4 + 4 + 4 + 4 + 4 + 4$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 24-4

Fold  
Here

Correct Answer

$$6 \times 4$$

Instructional Strategies

- Think of how many of the same number are being added.

Find the related  
multiplication problem.  
 $4 + 4 + 4 + 4 + 4 + 4$

Show me the related  
multiplication problem.

Find the related  
multiplication problem.  
 $10 + 10 + 10 + 10 + 10$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 24-5

Fold  
Here

Correct Answer

$$5 \times 10$$

Instructional Strategies

- Think of how many of the same number are being added.

Find the related  
multiplication problem.  
 $10 + 10 + 10 + 10 + 10$

Show me the related  
multiplication problem.

$$7 \times 5$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 25-1

Fold  
Here

Correct Answer

35

Instructional Strategies

- Can you skip-count by 5s?
- Can you use repeated addition?
- Can you think of two easier facts and add their products?

Show me the product.

$$7 \times 5$$



$$8 \times 8$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 25-2

Fold  
Here

$$8 \times 8$$

Show me the product.

Correct Answer

64

Instructional Strategies

- Can you skip-count by 8s?
- Can you use repeated addition?
- Can you think of two easier facts and add their products?

$$9 \times 4$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 25-3

Fold  
Here

Correct Answer

36

Instructional Strategies

- Can you skip-count by 9s?
- Can you use repeated addition?
- Can you think of two easier facts and add their products?

$$4 \times 9$$

Show me the product.

$$10 \times 10$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 25-4

Fold  
Here

$$10 \times 10$$

Show me the product.

Correct Answer

100

Instructional Strategies

- Can you skip-count by 10s?
- Can you use repeated addition?
- Can you think of two easier facts and add their products?

$$8 \times 6$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 25-5

Fold  
Here

$$9 \times 8$$

Show me the product.

Correct Answer

72

Instructional Strategies

- Can you skip-count by 8s?
- Can you use repeated addition?
- Can you think of two easier facts and add their products?

Find the  
missing factor:  
 $\_\times 5 = 45$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 26-1

Fold  
Here

Correct Answer

9

Instructional Strategies

- What division problem can help you find the missing factor?

Find the  
missing factor:  
 $\_\times 5 = 45$

Show me the  
missing factor.

Find the  
missing factor:  
 $7 \times \underline{\quad} = 56$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 26-2

Fold  
Here

Correct Answer

8

Instructional Strategies

- What division problem can help you find the missing factor?

Find the  
missing factor:  
 $7 \times \underline{\quad} = 56$

Show me the  
missing factor.

Find the  
missing factor:  
 $\_ \times 6 = 60$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 26-3

Fold  
Here

Correct Answer

10

Instructional Strategies

- What division problem can help you find the missing factor?

Find the  
missing factor:  
 $\_ \times 6 = 60$

Show me the  
missing factor.

Find the  
missing factor:  
 $8 \times \underline{\quad} = 72$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 26-4

Fold  
Here

Correct Answer

9

Instructional Strategies

- What division problem can help you find the missing factor?

Find the  
missing factor:  
 $8 \times \underline{\quad} = 72$

Show me the  
missing factor.



Find the  
missing factor:  
 $10 \times \underline{\quad} = 100$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 26-5

Fold  
Here

Correct Answer

10

Instructional Strategies

- What division problem can help you find the missing factor?

Show me the  
missing factor.

Find the  
missing factor:  
 $10 \times \underline{\quad} = 100$

# Sketch a rectangle with a perimeter of 10 units.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 27-1

Fold  
Here

Sketch a rectangle with a  
perimeter of 10 units.

Show me a rectangle  
with a perimeter  
of 10 units.

Possible Answers

rectangles with dimensions:  $1 \times 4$ ,  $4 \times 1$ ,  $2 \times 3$ , or  $3 \times 2$

Instructional Strategies

- What is the formula for the perimeter of a rectangle?
- If the perimeter is twice the length plus twice the width, what is half of 10 equal to?

# Sketch a rectangle with an area of 10 square units.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 27-2

Fold  
Here

Sketch a rectangle  
with an area of  
10 square units.

Show me a rectangle  
with an area of  
10 square units.

Possible Answers

rectangles with dimensions:  $1 \times 10$ ,  $10 \times 1$ ,  $2 \times 5$ , or  $5 \times 2$

Instructional Strategies

- What is the formula for the area of a rectangle?
- What does the product of the length and width need to equal?
- What are factors of 10?

# Sketch a rectangle with a perimeter of 8 units.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 27-3

Fold  
Here

Sketch a rectangle with a  
perimeter of 8 units.

Show me a rectangle  
with a perimeter  
of 8 units.

Possible Answers

rectangles with dimensions:  $1 \times 3$ ,  $3 \times 1$ ,  $2 \times 2$

Instructional Strategies

- What is the formula for the perimeter of a rectangle?
- If the perimeter is twice the length plus twice the width, what is half of 8 equal to?

# Sketch a rectangle with an area of 8 square units.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 27-4

Fold  
Here

Sketch a rectangle with  
an area of  
8 square units.

Show me a rectangle  
with an area of  
8 square units.

Possible Answers

rectangles with dimensions:  $1 \times 8$ ,  $8 \times 1$ ,  $2 \times 4$ , or  $4 \times 2$

Instructional Strategies

- What is the formula for the area of a rectangle?
- What does the product of the length and width need to equal?
- What are factors of 8?

# Sketch a rectangle with a perimeter of 12 units.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 27-5

Fold  
Here

Sketch a rectangle with a  
perimeter of 12 units.

Show me a rectangle  
with a perimeter  
of 12 units.

Possible Answers

rectangles with dimensions:  $1 \times 5$ ,  
 $5 \times 1$ ,  $2 \times 4$ , or  $4 \times 2$ , or  $3 \times 3$

Instructional Strategies

- What is the formula for the perimeter of a rectangle?
- If the perimeter is twice the length plus twice the width, what is half of 12 equal to?

$$(2 \times 3) + 12$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 28-1

Fold  
Here

Correct Answer

18

Instructional Strategies

- Do the multiplication first, and then add.

$$(2 \times 3) + 12$$

Show me the solution.

$$15 + (4 \times 5)$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 28-2

Fold  
Here

Correct Answer

35

Instructional Strategies

- Do the multiplication first, and then add.

$$(4 \times 5) + 15$$

Show me the solution.



$$16 + (3 \times 6)$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 28-3

Fold  
Here

Correct Answer

34

Instructional Strategies

- Do the multiplication first, and then add.

$$(3 \times 6) + 16$$

Show me the solution.

$$13 + (3 \times 4)$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 28-4

Fold  
Here

Correct Answer

25

Instructional Strategies

- Do the multiplication first, and then add.

$$(3 \times 4) + 13$$

Show me the solution.

$$(2 \times 5) + 17$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 28-5

Fold  
Here

Correct Answer

27

Instructional Strategies

- Do the multiplication first, and then add.

$$(2 \times 5) + 17$$

Show me the solution.

# Calculate in your head: $37 + 45$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 29-1

Fold  
Here

Calculate in  
your head:  
 $37 + 45$

Calculate the answer  
in your head.

Correct Answer

82

Instructional Strategies

- Can you add the tens, add the ones, and then add their sums?
- Can you start with one number and add the tens from the other number and then add the ones?
- Can you think of ways to split the numbers to find easier numbers to add?

# Calculate in your head: $53 + 19$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 29-2

Fold  
Here

Calculate in  
your head:  
 $53 + 19$

Calculate the answer  
in your head.

Correct Answer

72

Instructional Strategies

- Can you add the tens, add the ones, and then add their sums?
- Can you start with one number and add the tens from the other number and then add the ones?
- Can you think of ways to split the numbers to find easier numbers to add?

# Calculate in your head: $25 + 38$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 29-3

Fold  
Here

Calculate in  
your head:  
 $25 + 38$

Calculate the answer  
in your head.

Correct Answer

63

Instructional Strategies

- Can you add the tens, add the ones, and then add their sums?
- Can you start with one number and add the tens from the other number and then add the ones?
- Can you think of ways to split the numbers to find easier numbers to add?

# Calculate in your head: $15 + 66$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 29-4

Fold  
Here

Calculate in  
your head:  
 $15 + 66$

Calculate the answer  
in your head.

Correct Answer

81

Instructional Strategies

- Can you add the tens, add the ones, and then add their sums?
- Can you start with one number and add the tens from the other number and then add the ones?
- Can you think of ways to split the numbers to find easier numbers to add?

# Calculate in your head: $36 + 47$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 29-5

Fold  
Here

Calculate in  
your head:  
 $36 + 47$

Calculate the answer  
in your head.

Correct Answer

83

Instructional Strategies

- Can you add the tens, add the ones, and then add their sums?
- Can you start with one number and add the tens from the other number and then add the ones?
- Can you think of ways to split the numbers to find easier numbers to add?



$$\sqrt{0} = 0$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-1

Fold  
Here

$$\begin{array}{r} 3 \overline{)0} \end{array}$$

How much is 0 divided  
by 3? Show me your  
answer as an equation.

Correct Answer

$$0 \div 3 = \bar{0}$$

Instructional Strategy

- Use the zero property:  $n \times 0 = 0$  or  $0 \times n = 0$

$$3 \div \underline{\quad} = 1$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-2

Fold  
Here

$$1 = \underline{\quad} \div 3$$

One is equal to what  
number divided by 3?  
Show me your answer  
as an equation.

Correct Answer

$$1 = \bar{3} \div 3$$

Instructional Strategies

- Think multiplication: Four times 2 equals what number? Then use the multiplication fact  $4 \times 2 = 8$ .
- Use the property of division that any number divided by itself is 1.

$$12 = 3 \times \underline{\quad}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-3

Fold  
Here

$$12 = 3 \times \underline{\quad}$$

Twelve equals 3 times  
what number? Show  
me your answer  
as an equation.

Correct Answer

$$12 = 3 \times 4$$

Instructional Strategies

- Think about the matching fact (commutative property):  
Twelve is equal to what number times 3? Then skip-count  
by 3s to 12 (4 times).
- Use the multiplication fact  $4 \times 3 = 12$ .

$$27 \div 3 = \underline{\hspace{2cm}}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-4

Fold  
Here

$$27 \div 3 = \underline{\hspace{2cm}}$$

Twenty-seven divided by 3 equals what number? Show me your answer as an equation.

Correct Answer

$$27 \div 3 = 9$$

Instructional Strategies

- Think multiplication: Three times what number equals 27? Then use the multiplication fact  $3 \times 9 = 27$ .
  - Think about the matching fact: What number times 3 equals 27? Then skip-count by 3s to 27 (9 times).
  - Think multiplication: What number times 3 equals 27? Then use known facts to find a fact you do not know:  $10 \times 3 = 30$ .  $30 - 3 = 27$ .  $1 \times 3 = 3$ .
- $$(10 \times 3) - (1 \times 3) = (9 \times 3) = 27$$

# $18 = 3 \times ?$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-5

Fold  
Here

$$18 = 3 \times ?$$

Eighteen equals 3  
times what number?  
Show me your answer  
as an equation.

Correct Answer

$$18 = 3 \times 6$$

### Instructional Strategies

- Say the problem another way: Three times what number equals 18?
- Skip-count by 3s to 18 (6 times).
- Use known facts to find a fact you do not know:  
 $3 \times 5 = 15$ .  $18 - 15 = 3$ .  $3 \times 1 = 3$ .  
 $(3 \times 5) + (3 \times 1) = (3 \times 6) = 18$

$$3 \overline{)21}$$

# MULTIPLICATION AND DIVISION

SHOW ME CARD MD 30-6

Fold Here

$$3 \overline{)21}$$

How much is 21 divided by 3? Show me your answer as an equation.

Correct Answer

$$21 \div 3 = 7$$

## Instructional Strategies

- Think multiplication: What number times 3 equals 21? Then use the multiplication fact  $7 \times 3 = 21$ .
- Think multiplication: What number times 3 equals 21? Then skip-count by 3s to 21 (7 times).
- Think multiplication: What number times 3 equals 21? Then use known facts to find a fact you do not know:  $5 \times 3 = 15$ .  $15 + 6 = 21$ .  $2 \times 3 = 6$ .  $(5 \times 3) + (2 \times 3) = (7 \times 3)$

# 1 + 666,666

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 31-1

Fold Here

$999,999 + 1$

Show me the sum.

- Instructional Strategies
- Do this in your head. Write just what you need to keep track.
  - What is 1 more than 999,999?
  - Break 999,999 apart to help you add.
  - Think:  $999,000 + (999 + 1)$
  - $999,000 + 1,000$

Correct Answer

1,000,000

$$590,090 + 1,010$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 31-2

Fold  
Here

$$590,090 + 1,010$$

Show me the sum.

- Instructional Strategies**
- Do this in your head. Write just what you need to keep track.
  - Break the numbers apart to help you add.
  - Think: 590,000 plus 1,000 90 and 10

**Correct Answer**

591,100



$$399,101 + 1,099$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 31-3

Fold  
Here

$$399,101 + 1,099$$

Show me the sum.

Correct Answer

400,200

Instructional Strategies

- Do this in your head. Write just what you need to keep track.
- Break the numbers apart to help you add.
- Think: 399,000 plus 1,000 101 and 99 99 and 1

$$250,500 + 50,500$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 31-4

Fold  
Here

Correct Answer

301,000

Instructional Strategies

- Do this in your head. Write just what you need to keep track.
- Break the numbers apart to help you add.
- Think: 250,000 plus 50,000 500 and 500

250,500 + 50,500

Show me the sum.

$$425,000 + 375,000$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 31-5

Fold  
Here

Correct Answer

800,000

Instructional Strategies

- Do this in your head. Write just what you need to keep track.
- Break the numbers apart to help you add.
- Think: 400,000 plus 300,000 25,000 and 75,000

425,000 + 375,000

Show me the sum.

$$\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = 4 \times 9 \times 10$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 32-1

Fold Here

$$4 \times 9 \times 10 = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Show me how you would complete the equation.

- Instructional Strategies**
- You can multiply any two factors first and the result will be the same.
  - Which two numbers will you multiply first to make this easy to do in your head?
  - What will you multiply now? Write that part of the equation ( $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$ ).
  - Write the product.

**Possible Answers**  
 Accept:  $36 \times 10 = 360$      $4 \times 90 = 360$      $9 \times 40 = 360$

$$7 \times 8 \times 10 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 32-2

Fold  
Here

### Possible Answers

Accept:  $56 \times 10 = 560$     $7 \times 80 = 560$     $8 \times 70 = 560$

### Instructional Strategies

- You can multiply any two factors first and the result will be the same.
- Which two numbers will you multiply first to make this easy to do in your head?
- What will you multiply now? Write that part of the equation ( $\underline{\quad} \times \underline{\quad}$ ).
- Write the product.

Show me how you would complete the equation.

$$7 \times 8 \times 10 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$3 \times \underline{\hspace{2cm}} \times 10 = 210$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 32-3

Fold  
Here

$$3 \times \underline{\hspace{2cm}} \times 10 = 210$$

Show me how you  
would complete  
the equation.

Correct Answer

$$3 \times 7 \times 10 = 210$$

Instructional Strategies

- What do you know? 3 times 10 is 30. Some number times 30 equals 210.
- Think: What times 30 makes 210?
- Do you know a multiplication fact that will help?
- What times 3 makes 21?

$$\underline{\hspace{2cm}} \times 6 \times 10 = 240$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 32-4

Fold  
Here

$$\underline{\hspace{2cm}} \times 6 \times 10 = 240$$

Show me how you  
would complete  
the equation.

Correct Answer

$$4 \times 6 \times 10 = 240$$

Instructional Strategies

- What do you know? 6 times 10 is 60. Some number times 60 equals 240.
- Do you know a multiplication fact that will help?
- What times 6 equals 24?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times 10 = 490$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 32-5

Fold  
Here

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times 10 = 490$$

Show me how you  
would complete  
the equation.

Correct Answer

$$7 \times 7 \times 10 = 490$$

### Instructional Strategies

- What do you know? Some number times 10 equals 490.
- When you multiply the number by 10, it will have a 0 in the ones place. So the number is 49.
- What numbers multiplied give you 49? Can you use a multiplication fact?



$$25 \times \underline{\hspace{2cm}} = 250$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 33-1

Fold  
Here

Correct Answer

10

Instructional Strategies

- Look at 25 and 250. In 250, the digits 2 and 5 have moved one place to the left. How many times greater is the place to the left of any place in our number system?
- Try another way: Look at 25 and 250. 250 is 25 with a zero attached. What can you multiply by that gives a zero in the ones place and moves the other digits to the left one place?

$$25 \times \underline{\hspace{2cm}} = 250$$

Show me the  
missing number.

25 × \_\_\_\_ = 500

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 33-2

Fold Here

25 × \_\_\_\_ = 500

Show me the missing number.

Correct Answer

20

Instructional Strategies

- Think: 25 times what makes 50? And 50 times what makes 500?
- Rewrite this:  $25 \times (\_\_ \times \_\_) = 500$ .
- Try another way: In the last problem,  $10 \times 25 = 250$ . How can you use that to find what number times 25 equals 500?

$$10 \times \underline{\hspace{2cm}} = 150$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 33-3

Fold  
Here

Correct Answer

15

Instructional Strategies

- When you multiply by 10, you attach a zero at the end of the number you are multiplying. What number with a zero attached gives 150?
- Try another way: 10 times what gives 100? 10 times what equals 50?

Show me the  
missing number.

$$10 \times \underline{\hspace{2cm}} = 150$$

$$20 \times \underline{\hspace{2cm}} = 300$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 33-4

Fold  
Here

Correct Answer

15

Instructional Strategies

- Look at 2 and 30. 2 times what equals 30?
- Rewrite this:  $(2 \times 15) \times 10 = 300$
- $(2 \times 10) \times 15 = 300$

Show me the  
missing number.

$$20 \times \underline{\hspace{2cm}} = 300$$

$$32 \times \underline{\hspace{2cm}} = 640$$

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 33-5

Fold  
Here

Correct Answer

20

Instructional Strategies

- Look at 32 and 64. How many 32s make 64?
- Rewrite this:  $32 \times (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) = 640$ .

Show me the  
missing number.

$$32 \times \underline{\hspace{2cm}} = 640$$

There are \_\_\_\_\_  
hundreds in 1,200.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 34-1

Fold  
Here

Correct Answer

12

Instructional Strategies

- Read this number to yourself without saying "thousand." How many hundred did you say?
- Break the number apart. How many hundreds make a thousand? How many hundreds make two hundred?

Fill in the blank to make this statement true.

There are \_\_\_\_\_  
hundreds in 1,200.

There are \_\_\_\_\_  
hundreds in 1,640.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 34-2

Fold  
Here

Correct Answer

16

Instructional Strategies

- Do you need to think about the 40 to answer this? Write one, six, zero, zero. [Don't say "sixteen hundred."]
- When you read the hundreds place, how many hundreds are there?
- In our system of writing numbers, how many times greater is each place to the left? How many hundreds in a thousand?

Fill in the blank to make this statement true.

There are \_\_\_\_\_  
hundreds in 1,640.

There are \_\_\_\_\_  
ones in 1,253.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 34-3

Fold  
Here

Correct Answer

1,253

Instructional Strategies

- Could you build this number with place-value blocks using only ones blocks? How many would you need?
- How many ones in 3? In 50? In 200? In 1,000?

Fill in the blank to make  
this statement true.

There are \_\_\_\_\_  
ones in 1,253.



There are \_\_\_\_\_  
ten thousands in  
790,000.

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 34-4

Fold  
Here

Correct Answer

79

Instructional Strategies

- What are the names of the places in the thousands period? Hundred thousand, ten thousand, and one thousand.
- In our system of writing numbers, how many times greater is each place to the left? How many ten thousands in one hundred thousand?
- How many ten thousands in seven hundred thousand? And, how many ten thousands in ninety thousand?

Fill in the blank to make  
this statement true.

There are \_\_\_\_\_ ten  
thousands in 790,000.

There are \_\_\_\_\_  
hundreds in 65,200.

Correct Answer

652

Instructional Strategies

- How many hundreds in six hundred? How many hundreds in the next place to the left—in six thousand? How many in the next place to the left—in sixty thousand?
- How many hundreds in five hundred? How many in the next place to the left—in five thousand?
- How many hundreds in 650? In 6,500? In 65,000? In 65,200?

Fill in the blank to make this statement true.

There are \_\_\_\_\_ hundreds  
in 65,200.

81  
9 and \_

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 35-1

Fold  
Here

Correct Answer

9

Instructional Strategies

- Think: "9 times what equals 81?"
- Can you use division to find the missing factor?

81  
9 and \_

Show me the missing  
number in the  
factor pair for 81.

Fold  
Here

40  
\_ and 8

40  
\_ and 8

Show me the missing  
number in the  
factor pair for 40.

Correct Answer

5

Instructional Strategies

- Think: "What times 8 equals 40?"
- Can you use division to find the missing factor?

54  
\_ and 9

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 35-3

Fold  
Here

54  
\_ and 9

Show me the missing  
number in the  
factor pair for 54.

Correct Answer

6

Instructional Strategies

- Think: "What times 9 equals 54?"
- Can you use division to find the missing factor?

70  
7 and \_

MULTIPLICATION AND DIVISION

SHOW ME CARD MD 35-4

Fold  
Here

70  
7 and \_

Show me the missing  
number in the  
factor pair for 70.

Correct Answer

10

Instructional Strategies

- Think: "7 times what equals 70?"
- Can you use division to find the missing factor?

Fold  
Here

SHOW ME CARD MD 35-5

MULTIPLICATION AND DIVISION

64  
\_ and 8

64  
\_ and 8

Show me the missing  
number in the  
factor pair for 64.

Correct Answer

8

Instructional Strategies

- Think: "What times 8 equals 64?"
- Can you use division to find the missing factor?

$$38 \div 3$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 36-1

Fold  
Here

$$38 \div 3$$

Show me the  
remainder for  $38 \div 3$ .

Correct Answer

The remainder is 2.

### Instructional Strategies

- Think: "If you shared 38 marbles equally among 3 people, how many marbles would each person get?"
- Think: "Would there be any marbles left over? If so, how many?"



# $43 \div 2$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 36-2

Fold  
Here

$$43 \div 2$$

Show me the  
remainder for  $43 \div 2$ .

Correct Answer

The remainder is 1.

Instructional Strategies

- Think: "If you shared 43 stickers equally between 2 children, how many stickers would each child get?"
- Think: "Would there be any stickers left over? If so, how many?"

# $101 \div 3$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 36-3

Fold  
Here

$101 \div 3$

Show me the remainder  
for  $101 \div 3$ .

Correct Answer

The remainder is 2.

### Instructional Strategies

- Think: "If you shared 101 pennies equally among 3 people, how many pennies would each person get?"
- Think: "Would there be any pennies left over? If so, how many?"

$$50 \div 2$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 36-4

Fold  
Here

$$50 \div 2$$

Show me the  
remainder for  $50 \div 2$ .

Correct Answer

There is no remainder.

Instructional Strategies

- Think: "If you shared 50 pencils equally between 2 people, how many pencils would each person get?"
- Think: "Would there be any pencils left over? If so, how many?"

$$3 \div 666$$

## MULTIPLICATION AND DIVISION

SHOW ME CARD MD 36-5

Fold  
Here

$$999 \div 3$$

Show me the remainder  
for  $999 \div 3$ .

Correct Answer

There is no remainder.

### Instructional Strategies

- Think: "If you shared 999 ribbons equally among 3 schools, how many ribbons would each school get?"
- Think: "Would there be any ribbons left over? If so, how many?"

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