

4.OA.A.2 Writing Fact Families and Problem Solving

4.OA.A.2: Multiply or divide to solve word problems involving multiplicative comparison.

1. Complete the fact family for the set of numbers.

<p>Example:</p> <p>6, 5, 30</p> <p>$6 \times 5 = 30$</p> <p>$5 \times 6 = 30$</p> <p>$30 \div 6 = 5$</p> <p>$30 \div 5 = 6$</p>	<p>4, 7, 28</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>6, 3, 18</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>5, 9, 45</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>3, 8, 24</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>7, 7, 49</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>6, 9, 54</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>8, 9, 72</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

2. Find the value of the variable. Complete the fact family with all 3 numbers.

a. $21 \div 3 = h$

b. $4 \times m = 32$

c. $k \div 8 = 8$

d. $s \div 7 = 6$

Solution

a.

b.

c.

d.

3. George visits his grandfather 4 times a month. About how many times will he visit his grandfather in 9 months?

Solution:

4. Bea reads 4 short stories every day from her books. How many short stories does she read in 5 days?

Solution:

5. A bag contains about 28 candies. Henry eats the same number of candies every day. If he finishes all the candies in the bag in 7 days, how many candies does Henry eat each day?

Solution:

6. Which family belongs to the same fact family as $5 \times 9 = 45$?

A. $9 + 5 = 14$

C. $45 - 9 - 5 = 31$

B. $5 \times 5 = 25$

D. $45 \div 9 = 5$

Solution:

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Answer Key

4.OA.A.2: Multiply or divide to solve word problems involving multiplicative comparison.

1. Complete the fact family for the set of numbers.

Example: 6, 5, 30 $6 \times 5 = 30$ $5 \times 6 = 30$ $30 \div 6 = 5$ $30 \div 5 = 6$	4, 7, 28 $4 \times 7 = 28$ $7 \times 4 = 28$ $28 \div 4 = 7$ $28 \div 7 = 4$	6, 3, 18 $6 \times 3 = 18$ $3 \times 6 = 18$ $18 \div 6 = 3$ $18 \div 3 = 6$	5, 9, 45 $5 \times 9 = 45$ $9 \times 5 = 45$ $45 \div 5 = 9$ $45 \div 9 = 5$
3, 8, 24 $3 \times 8 = 24$ $8 \times 3 = 24$ $24 \div 3 = 8$ $24 \div 8 = 3$	7, 7, 49 $7 \times 7 = 49$ $49 \div 7 = 7$	6, 9, 54 $6 \times 9 = 54$ $9 \times 6 = 54$ $54 \div 6 = 9$ $54 \div 9 = 6$	8, 9, 72 $8 \times 9 = 72$ $9 \times 8 = 72$ $72 \div 8 = 9$ $72 \div 9 = 8$

2. Find the value of the variable. Complete the fact family with all 3 numbers.

a. $21 \div 3 = h$

b. $4 \times m = 32$

c. $k \div 8 = 8$

d. $s \div 7 = 6$

Solution

a.	b.	c.	d.
$h = 7$	$m = 8$	$k = 64$	$s = 42$
$3 \times 7 = 21$	$4 \times 8 = 32$	$8 \times 8 = 64$	$6 \times 7 = 42$
$7 \times 3 = 21$	$8 \times 4 = 32$	$64 \div 8 = 8$	$7 \times 6 = 42$
$21 \div 3 = 7$	$32 \div 4 = 8$		$42 \div 6 = 7$
$21 \div 7 = 3$	$32 \div 8 = 4$		$42 \div 7 = 6$

3. George visits his grandfather 4 times a month. About how many times will he visit his grandfather in 9 months?

Solution:

$4 \times 9 = 36$
Answer: 36 times

4. Bea reads 4 short stories every day from her books. How many short stories does she read in 5 days?

Solution:

$4 \times 5 = 20$
Answer: 20 short stories

5. A bag contains about 28 candies. Henry eats the same number of candies every day. If he finishes all the candies in the bag in 7 days, how many candies does Henry eat each day?

Solution:

$28 \div 7 = 4$
Answer: 4 candies

6. Which family belongs to the same fact family as $5 \times 9 = 45$?

A. $9 + 5 = 14$

C. $45 - 9 - 5 = 31$

B. $5 \times 5 = 25$

D. $45 \div 9 = 5$

Solution:

D. $45 \div 9 = 5$