



## Grade 3 Mathematics

### Operations and Algebraic Thinking

3.OA.9

1. Sarah has 12 pencils. Angela has 8 pencils. How many pencils do they have all together? Select from the drop-down menus to make an addition number sentence. Let  $t$  be the total number of pencils.

Choose	▼		Choose	▼		Choose	▼
12		+	12		=	12	
$t$			$t$			$t$	
8			8			8	

3.OA.1

2. Which **three** answer choices can be solved using the expression  $6 \times 2$ ? Select the **three** correct answers.

- A. Susan has 2 cups with 6 buttons in each cup.
- B. Nancy has one cup with 2 buttons and one cup with 6 buttons.
- C. Paul has 2 buttons and Sam has 6 buttons.
- D. David has 6 cups with 2 buttons in each cup.
- E. Frank separated the buttons into 2 groups with 6 buttons in each group.

3.OA.2

3. Wendy has 48 buttons. She sorted them into equal piles. Find two possible ways the buttons could be sorted.

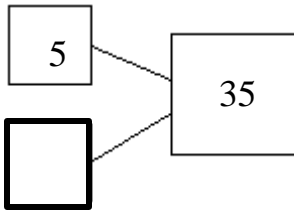
8	16	4	12	6	3	24
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Wendy has  equal piles of  buttons.

Wendy has  equal piles of  buttons.

3.OA.4

4. Find the missing number in the bonding model for multiplication. Write your answer in the box.



3.OA.5

5. Which **two** statements are true? Select the **two** correct answers.

A.  $6 \times 5 = 5 \times 6$

D.  $6 + 5 = 5 + 6$

B.  $6 \times 5 = 5 \times 7$

E.  $5 + 6 = 5 \times 4$

C.  $6 \times 5 = 2 \times 4 \times 5$

3.OA.7

6. Which **two** equations can help you solve  $36 \div 4 = ?$  Select the **two** correct answers.

A.  $4 \times ? = 36$

D.  $4 + ? = 36$

B.  $36 - 4 = ?$

E.  $? \times 4 = 36$

C.  $4 \div 36 = ?$

3.OA.8

7. Bella went back to school shopping with her mom. She bought two pairs of pants for \$8 each, a t-shirt for \$6, and some socks for \$4. How much money did Bella spend? Write your answer in the box.

Bella spent \$ .

3.OA.4

8. Select the symbol from the drop-down menu that makes this number sentence true?

4 

Choose	<input type="button" value="v"/>
$6 = 24$	
×	
÷	
+	
-	



## ANSWER KEY

3.OA.9

1. Possible response:

Choose	▼
12	
<i>t</i>	
8	

+

Choose	▼
12	
<i>t</i>	
8	

=

Choose	▼
12	
8	

3.OA.1

2.

- Susan has 2 cups with 6 buttons in each cup.
- Nancy has one cup with 2 buttons and one cup with 6 buttons.
- Paul has 2 buttons and Sam has 6 buttons.
- David has 6 cups with 2 buttons in each cup.
- Frank separated the buttons into 2 groups with 6 buttons in each group.

3.OA.2

3. Possible response:

Wendy has  equal piles of  buttons.

Wendy has  equal piles of  buttons.

3.OA.4

4. 7

3.OA.5

5.

$6 \times 5 = 5 \times 6$

$6 + 5 = 5 + 6$

$6 \times 5 = 5 \times 7$

$5 + 6 = 5 \times 4$

$6 \times 5 = 2 \times 4 \times 5$

3.OA.7

6.

$4 \times ? = 36$

$4 + ? = 36$

$36 - 4 = ?$

$? \times 4 = 36$

$4 \div 36 = ?$

3.OA.8

7. \$26

3.OA.4

8.

4

Choose	▼
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 $6 = 24$

×

÷

+

-