

3.OA.B.5 Using Multiplication Properties in Problem Solving

3.OA.B.5: Apply properties of operations as strategies to multiply and divide.

Answer the question below.

1. Which property of multiplication is shown in this array?

Answer: _____



Find the missing factors.

2. $5 \times \underline{\hspace{2cm}} = 4 \times 5$

3. $7 \times (2 \times 3) = (\underline{\hspace{2cm}} \times 2) \times 3$

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

5. $3 \times (4 \times 5) = (\underline{\hspace{2cm}} \times 4) \times 5$

Write the missing number and explain your answer.

6. $\underline{\hspace{2cm}} \times 5 = 0$

Answer: _____

Use the pictograph to answer the questions below.

7. Ashley bought 2 paintbrushes. How much did she spend?

Answer: _____

8. Which costs more: 4 watercolors or 6 paintbrushes?

Answer: _____

Art Materials	
Paint Brush	
Watercolor	
Sketch Pad	
Key: Each = \$1	

9. Margaret bought 3 sketch pads. Show how you can use the commutative property to find the total cost.

Answer: _____



3.OA.B.5 Using Multiplication Properties in Problem Solving

Answer Key

3.OA.B.5: Apply properties of operations as strategies to multiply and divide.

Answer the question below.

1. Which property of multiplication is shown in this array?

Answer: Commutative Property



Find the missing factors.

2. $5 \times \underline{4} = 4 \times 5$

3. $7 \times (2 \times 3) = (\underline{7} \times 2) \times 3$

4. $\underline{2} \times 7 = 7 \times 2$

5. $3 \times (4 \times 5) = (\underline{3} \times 4) \times 5$

Write the missing number and explain your answer.

6. $\underline{0} \times 5 = 0$

Answer: Zero Property of Multiplication states that the product of zero and any number equals 0.

Use the pictograph to answer the questions below.

7. Ashley bought 2 paintbrushes. How much did she spend?

Answer: \$2

8. Which costs more: 4 watercolors or 6 paintbrushes?

Answer: 4 watercolors

Art Materials	
Paint Brush	
Watercolor	
Sketch Pad	
Key: Each = \$1	

9. Margaret bought 3 sketch pads. Show how you can use the commutative property to find the total cost.

Answer: 3 sketch pads \times \$4 = \$12 and \$4 \times 3 sketch pads = \$12

