

Patterns & Algebra

Name:

Date:





1. What is the missing number from the pattern?

6, 12, 18, ____, 30, 36

- 29 20
 19 24

2. Enter the missing number to make the number sentence true.

$$3 \times 8 = \square \times 6$$

3.  = 5  = ?
 +  = 16

What is the value of the circle?

- 8 10
 9 11









4. $6 \times \triangle = 42$

What is the value of the triangle?

- 7 36
 6 48

5. What are the next two shapes in the pattern?



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6. Each number in a pattern is half the previous number? If the first number in the pattern is 100, what is the third number?

- 12.5 50
 25 200

7. What is the next number in this pattern?

0.5, 1, 1.5, 2, ____

- 2.5 3
 2.0 3.5

8. Which number sentence is not true?

- $6 \times 6 = 4 \times 9$
 $8 + 6 = 2 \times 7$
 $5 \times 9 = 9 \times 5$
 $5 \times 5 = 4 \times 6$

9. Fill in the missing number.

12, 15, 19, 30, 37.

10. What is the eighth number in this pattern?

6, 12, 18, 24, 30, ____, ____, ***

is the eighth number in the pattern.