Arithmetic Patterns

Grade 3 Math Worksheet - Building Confidence

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Name _____ Date _____

Circle the answer.

1. In a multiplication table, which fact matches 4 × 3 by switching the order?
   3 × 4 4 + 3 4 × 4

2. What is true about the sum of an even number and an odd number?
   it is always odd it always ends in 5 it can be even or odd

3. What rule fits this pattern?

   4 8 12 16 20

   add 8 each time add 4 each time add 2 each time

4. Which pattern is made by adding 10 each time?
   14, 24, 34, 44 14, 15, 16, 17 14, 28, 42, 56

5. Which number goes in the empty box?

   5 10 15 20 ☐

   25 24 30

6. What is true about the sum of two odd numbers?
   it is always odd it can be even or odd it is always even

7. What rule fits this pattern?

   50 45 40 35

   subtract 10 each time add 5 each time subtract 5 each time

8. On a hundred chart, how does a number change when you move down one row?
   it increases by 100 it increases by 10 it increases by 1

9. In an addition table, 3 + 5 = 8. Which sum is also 8 because the order is switched?
   3 + 8 5 + 4 5 + 3

10. What is true about the sum of two even numbers?
    it always ends in 0 it is always even it is always odd

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Answer Key - Grade 3 Math Worksheet - Building Confidence

Circle the answer.

1. In a multiplication table, which fact matches 4 × 3 by switching the order?

   3 × 4 (circled) 4 + 3 4 × 4

2. What is true about the sum of an even number and an odd number?

   it is always odd (circled) it always ends in 5 it can be even or odd

3. What rule fits this pattern?

   4 8 12 16 20

   add 8 each time add 4 each time (circled) add 2 each time

4. Which pattern is made by adding 10 each time?

   14, 24, 34, 44 (circled) 14, 15, 16, 17 14, 28, 42, 56

5. Which number goes in the empty box?

   5 10 15 20 25

   25 (circled) 24 30

6. What is true about the sum of two odd numbers?

   it is always odd it can be even or odd it is always even (circled)

7. What rule fits this pattern?

   50 45 40 35

   subtract 10 each time add 5 each time subtract 5 each time (circled)

8. On a hundred chart, how does a number change when you move down one row?

   it increases by 100 it increases by 10 (circled) it increases by 1

9. In an addition table, 3 + 5 = 8. Which sum is also 8 because the order is switched?

   3 + 8 5 + 4 5 + 3 (circled)

10. What is true about the sum of two even numbers?

    it always ends in 0 it is always even (circled) it is always odd