Arithmetic Patterns

Grade 3 Math Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

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

2. Which pattern is made by adding 10 each time?
   44, 34, 24, 14 14, 24, 34, 44 14, 15, 16, 17

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

4. Which number goes in the empty box?

   5 10 15 20 ☐

   30 24 25

5. What rule fits this pattern?

   4 8 12 16 20

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

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

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

8. Which pattern counts by 5s?
   15, 30, 45, 60 15, 16, 17, 18 15, 20, 25, 30

9. What rule fits this pattern?

   50 45 40 35

   subtract 10 each time subtract 5 each time subtract 6 each time

10. What is true about the numbers in this pattern?

    2 4 6 8

    they are all even they all end in 0 they are all odd

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Answer Key - Grade 3 Math Worksheet - Building Confidence

Circle the answer.

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

2. Which pattern is made by adding 10 each time?
   44, 34, 24, 14 14, 24, 34, 44 (circled) 14, 15, 16, 17

3. On a hundred chart, how does a number change when you move down one row?
   it increases by 10 (circled) it increases by 1 it decreases by 10

4. Which number goes in the empty box?

   5 10 15 20 25

   30 24 25 (circled)

5. What rule fits this pattern?

   4 8 12 16 20

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

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

7. What is true about the sum of two even numbers?
   it always ends in 0 it is always odd it is always even (circled)

8. Which pattern counts by 5s?
   15, 30, 45, 60 15, 16, 17, 18 15, 20, 25, 30 (circled)

9. What rule fits this pattern?

   50 45 40 35

   subtract 10 each time subtract 5 each time (circled) subtract 6 each time

10. What is true about the numbers in this pattern?

    2 4 6 8

    they are all even (circled) they all end in 0 they are all odd