Arithmetic Patterns

Grade 3 Math Worksheet

PencilGo

Name _____ Date _____

Circle the answer, or write the answer on the line.

1. Each product in the 6s row is double a product in the 3s row. 3 × 7 = 21. What is 6 × 7?

   _____

2. What is true about the product of two odd numbers?

   it is always even it always ends in 5 it is always odd it can be even or odd

3. Every product in the 5s row ends in 0 or 5. Which number is in the 5s row?

   44 45 54 42

4. These numbers are from the 4s row of the multiplication table. What is true about them?

   24 28 32 36

   they are all odd

   they all end in 4

   some are even and some are odd

   they are all even

5. In an addition table, what is true about the sums 1 + 9, 2 + 8 and 3 + 7?

   they go up by 2 they are all odd they are all 10 they go up by 1

6. These are products from the 9s row. Add the two digits of each number. What do you notice?

   18 27 36 45 54

   the digit sums go up by 1

   the digits always add to 8

   the digits always add to 10

   the digits always add to 9

7. In an addition table, the doubles are 1 + 1, 2 + 2, 3 + 3 and 4 + 4. What is true about their sums?

they always end in 0 | they can be even or odd | they are always odd | they are always even

8. Which pattern shows products of 6?

6, 12, 18, 24 | 12, 14, 16, 18 | 6, 10, 14, 18 | 6, 7, 8, 9

9. What rule fits this pattern?

8 16 24 32 40

add 6 each time | add 16 each time | multiply by 2 each time | add 8 each time

10. What is true about the product of an even number and an odd number?

it is always even | it can be even or odd | it always ends in 0 | it is always odd

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Answer Key - Grade 3 Math Worksheet

Circle the answer, or write the answer on the line.

1. Each product in the 6s row is double a product in the 3s row. 3 × 7 = 21. What is 6 × 7?

   42

2. What is true about the product of two odd numbers?

   it is always even it always ends in 5 **it is always odd**

   it can be even or odd

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