Arithmetic Patterns

Grade 3 Math Worksheet

PencilGo

Name _____ Date _____

Circle the answer.

1. Which pattern shows products of 6?

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

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

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

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

   24 28 32 36

   they are all even

   some are even and some are odd

   they are all odd

   they all end in 4

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

   18 27 36 45 54

   the digits always add to 10

   the digits always add to 9

   the digits always add to 8

   the digit sums go up by 1

5. Look at 45, 54, 63 and 72 from the 9s row. How do the digits change?

   tens go up 1, ones go down 1

   tens go up 1, ones go up 1

   tens go down 1, ones go up 1

   tens stay the same, ones go down 1

6. What rule fits this pattern?

8 16 24 32 40

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

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

45 | 42 | 54 | 44

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

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

9. Which number goes in the empty box?

7 14 21 28 ☐

42 | 36 | 32 | 35

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

they are always even | they can be even or odd | they are always odd

they always end in 0

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Answer Key - Grade 3 Math Worksheet

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