Arithmetic Patterns

Grade 3 Math Worksheet

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Name _____ Date _____

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

1. On a hundred chart, which numbers are in the same column as 23?

   22, 24, 25 13, 33, 43 32, 42, 52 20, 30, 40

2. Which pattern shows products of 6?

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

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

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

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

   _____

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

   42 54 44 45

6. Which number goes in the empty box?

   7 14 21 28 ☐

   32 36 42 35

7. 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 8

   the digits always add to 10

   the digits always add to 9

   the digit sums go up by 1

8. Why is 4 times any number always even?

the product is always more than 10

the other factor is always even

it always ends in 4

it can always be split into two equal groups

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

24 28 32 36

some are even and some are odd

they are all even

they all end in 4

they are all odd

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

tens stay the same, ones go down 1

tens go down 1, ones go up 1

tens go up 1, ones go up 1

tens go up 1, ones go down 1

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Answer Key - Grade 3 Math Worksheet

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