

Multiplicative Comparison and Factors: math practice, Grade 4 – download the PDF

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Reading a multiplication fact

★ ★ ★

Look at the equation $28 = 4 \times 7$. Write two multiplicative comparison statements, one that starts with “28 is 4 times as many as ...” and one that starts with “28 is 7 times as many as ...”.

2 Puppy and dog

★ ★ ★

Sam’s puppy weighs 8 pounds. His dog weighs 4 times as much as the puppy. Write an equation and find the weight of the dog.

3 Tall tree

★ ★ ★

A bush is 5 feet tall. An oak tree is 7 times as tall as the bush. How tall is the oak tree?

4 Factor pairs of 18

★ ★ ★

List all the factor pairs of 18, then write all the factors of 18 in order.

5 Skip counting by 8



Write the first six multiples of 8.

6 True or false?



Decide whether each statement is true or false, and explain.

- a. 7 is a factor of 42.
- b. 25 is a multiple of 4.
- c. 9 is a factor of 54.
- d. 1 is a prime number.

7 Ones digit test



For each number, tell whether it is divisible by 2, by 5, or by 10: 340, 215, 462, 1,000.

8 More or times as many?



Nora read 6 pages of her book. Omar read 3 times as many pages as Nora. Pia read 3 more pages than Nora. How many pages did Omar and Pia each read? Who read more, and how many more pages?

9 Trail length



A bike path is 56 miles long. A walking trail in the park is 8 miles long. The bike path is how many times as long as the walking trail? Write an equation with a letter.

10 Factors of 48



Find all the factor pairs of 48. How many factors does 48 have?

11 Sorting numbers



Write “prime” or “composite” for each number and justify with a factor pair when it is composite: 23, 39, 51, 59, 77, 91.

12 Digit sums



Use digit sums to tell which of these numbers are divisible by 3 and which by 9: 5,274; 3,185; 7,326; 4,512.

13 Add 5 pattern

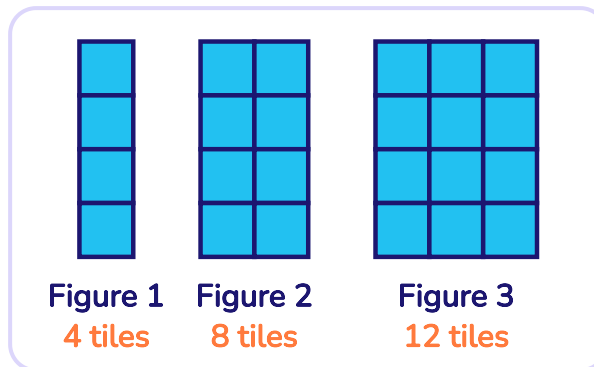


A number pattern starts at 7 and follows the rule “add 5.” Write the first eight terms. What do you notice about the ones digits?

14 Tile figures



The figures below follow a pattern.



- How many tiles are in Figure 7?
- Which figure has 40 tiles?
- Can a figure have exactly 50 tiles? Explain.

15 Markers for two schools



A school bought 9 packs of markers with 6 markers in each pack. A second school bought 3 times as many markers. How many markers did the second school buy? Write an equation using a letter.

16 Mystery prime



I am a prime number between 50 and 60. The sum of my digits is 14. What number am I?

17 Mystery multiple



I am a multiple of both 6 and 8. I am between 40 and 100, and the sum of my digits is 9. What number am I?

18 Most factors

Between 20 and 30 (not counting 20 and 30), which number has the most factors? Show your factors.

19 Always, sometimes, never

Is each statement true or false? Give an example that proves it.

- a. All prime numbers are odd.
- b. If a number is divisible by 9, then it is divisible by 3.
- c. Every multiple of 5 is a composite number.

20 Subtract 7 pattern

A pattern starts at 100 and follows the rule “subtract 7.”

- a. Write the first nine terms.
- b. Which term is the first one less than 50?
- c. Is 30 in the pattern? Is 35?

21 Chairs in rows

A coach wants to arrange 36 chairs in a rectangle with the same number of chairs in each row. There must be at least 2 rows and at least 2 chairs in a row. How many different rectangles can she make? Describe each one. (A 4 by 9 and a 9 by 4 count as the same rectangle.)

22

Movie and cartoon

A movie lasts 90 minutes. A cartoon lasts 15 minutes. (a) The movie is how many times as long as the cartoon? (b) How many more minutes is the movie than the cartoon? (c) Explain why the answers to (a) and (b) are different.

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