

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

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Multiplicative comparisons

/ 3 pts

- Write two multiplicative comparison statements for $56 = 8 \times 7$.
- A canoe is 12 feet long. A sailboat is 4 times as long as the canoe. How long is the sailboat?
- A tower is 72 meters tall and a statue is 8 meters tall. The tower is how many times as tall as the statue? Write an equation.

2 Add or multiply

/ 3 pts

Dana saves 9 dollars. Eli saves 4 times as much as Dana. Fay saves 4 dollars more than Dana.

- How much does Eli save?
- How much does Fay save?
- How many more dollars does Eli save than Fay?

3 Factors of 54

/ 4 pts

- a. List all the factor pairs of 54.
- b. List all the factors of 54 in order.
- c. Is 8 a factor of 54? Justify.

4 Multiples of 12

/ 3 pts

- a. Write the first five multiples of 12.
- b. Is 96 a multiple of 12? Justify.
- c. Which multiple of 12 is between 100 and 110?

5 Prime or composite

/ 4 pts

- a. Say whether each number is prime or composite: 31, 57, 73, 85.
- b. Which prime number is even?
- c. Why is 1 neither prime nor composite?

6 Divisibility and patterns

/ 3 pts

- a. Is 7,128 divisible by 2? By 5? By 9? Explain with the digits.
- b. Write the first five terms of the pattern that starts at 5 and follows the rule "add 8."



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