

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Multiplicative comparisons

/ 3 pts

- a. “56 is 8 times as many as 7” and “56 is 7 times as many as 8.” (1 pt)
- b. $4 \times 12 = 48$. The sailboat is 48 feet long. (1 pt)
- c. $72 = n \times 8$, so $n = 72 \div 8 = 9$. The tower is 9 times as tall as the statue. (1 pt)

2 Add or multiply

/ 3 pts

- a. $4 \times 9 = 36$ dollars. (1 pt)
- b. $9 + 4 = 13$ dollars. (1 pt)
- c. $36 - 13 = 23$. Eli saves 23 dollars more than Fay. (1 pt)

3 Factors of 54

/ 4 pts

- a. 1 and 54, 2 and 27, 3 and 18, 6 and 9 (we stop at 6 since 7 and 8 are not factors; 4 and 5 are not factors either). (2 pts)
- b. 1, 2, 3, 6, 9, 18, 27, 54. (1 pt)
- c. No: $8 \times 6 = 48$ and $8 \times 7 = 56$, so 54 falls between two multiples of 8. (1 pt)

4 Multiples of 12

/ 3 pts

- a. 12, 24, 36, 48, 60. (1 pt)
- b. Yes, $12 \times 8 = 96$. (1 pt)
- c. $12 \times 9 = 108$ and $12 \times 8 = 96$, $12 \times 10 = 120$, so the answer is 108. (1 pt)

5 Prime or composite

/ 4 pts

- a. 31 is prime. 57 is composite (3×19). 73 is prime. 85 is composite (5×17). (2 pts)
- b. The number 2. (1 pt)
- c. The number 1 has only one factor, itself. A prime needs exactly two factors and a composite more than two. (1 pt)

6 Divisibility and patterns

/ 3 pts

- a. It ends in 8, so it is divisible by 2 and not by 5. (1 pt) The digits add to $7 + 1 + 2 + 8 = 18$, a multiple of 9, so it is divisible by 9. (1 pt)
- b. 5, 13, 21, 29, 37. (1 pt)



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