

Understanding Multiplication: math test solutions, Grade 3 – 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 Repeated addition and products

/ 4 pts

- a. $6 \times 4 = 24$ (1 pt)
- b. $3 \times 9 = 27$ (1 pt)
- c. $2 \times 8 = 16$ (1 pt)
- d. $5 \times 6 = 30$ (1 pt)

2 Reading an array

/ 4 pts

- a. $5 \times 4 = 20$. There are 20 flowers. (1 pt)
- b. $5 \times 4 = 20$ and $4 \times 5 = 20$. (2 pts)
- c. The box is 8, by the commutative property. (1 pt)

3 Skip counting

/ 3 pts

- a. 3, 6, 9, 12, 15, 18, 21 inches. (2 pts)
- b. $7 \times 3 = 21$. The snail climbs 21 inches. (1 pt)

4 Zeros and ones

/ 3 pts

- a. $12 \times 0 = 0$ (1 pt)
- b. $1 \times 15 = 15$ (1 pt)
- c. $0 \times 1 = 0$ (1 pt)

5 Bookshelves

/ 4 pts

- a. $6 \times 7 = 42$. There are 42 books. (2 pts)
- b. Now there are 7 shelves: $7 \times 7 = 49$. She has 49 books. (2 pts)

6 True or false

/ 2 pts

- a. True: factors can switch places and both products are 24. (1 pt)
- b. False: any number times 0 is 0, so $5 \times 0 = 0$. (1 pt)



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