

Understanding Multiplication: math test, Grade 3 – download the PDF

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

1 Repeated addition and products

/ 4 pts

Write each as a multiplication equation and find the product. (No calculator.)

- a. $4 + 4 + 4 + 4 + 4 + 4$
- b. $9 + 9 + 9$
- c. $8 + 8$
- d. 5 groups of 6

2 Reading an array

/ 4 pts

A flower bed has 5 rows with 4 flowers in each row.

- a. How many flowers are in the bed?
- b. Write two multiplication equations for the array.
- c. Fill in the box: $8 \times 3 = 3 \times \square$.

3 Skip counting

/ 3 pts

A snail climbs 3 inches each minute. It climbs for 7 minutes.

- Skip count by 3 to list how high it is after each minute.
- Write the multiplication equation for the total height.

4 Zeros and ones

/ 3 pts

Find each product.

- 12×0
- 1×15
- 0×1

5 Bookshelves

/ 4 pts

Ava has 6 shelves. Each shelf holds 7 books.

- How many books are on the shelves?
- Ava adds one more shelf with 7 books. How many books does she have now? Use a multiplication equation.

6 True or false

/ 2 pts

Say whether each statement is true or false and explain briefly.

- $4 \times 6 = 6 \times 4$
- $5 \times 0 = 5$



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