

Multiplying Multi-Digit Whole Numbers: 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 Mental math

/ 4 pts

- a. $9 \times 7 = 63$, one zero: **630**. (1 pt)
- b. $6 \times 8 = 48$, two zeros: **4,800**. (1 pt)
- c. $5 \times 4 = 20$, two zeros: **2,000**. (1 pt)
- d. $7 \times 3 = 21$, three zeros: **21,000**. (1 pt)

2 Area model

/ 3 pts

Split $27 = 20 + 7$ and $45 = 40 + 5$. (1 pt)

	20	7
40	20×40 800	7×40 280
5	20×5 100	7×5 35
Total = 1,215		

Partial products: 800, 280, 100, and 35. (1 pt)

Total: $800 + 280 + 100 + 35 = 1,215$. (1 pt)

3 4-digit times 1-digit

/ 3 pts

$6,000 \times 7 = 42,000$, $100 \times 7 = 700$, $30 \times 7 = 210$, $8 \times 7 = 56$. (2 pts)

$42,000 + 700 + 210 + 56 = 42,966$. (1 pt)

4 Two 2-digit numbers

/ 3 pts

$83 \times 50 = 4,150$. (1 pt)

$83 \times 7 = 581$. (1 pt)

$4,150 + 581 = 4,731$. (1 pt)

5 Reasonable answer?

/ 3 pts

a. $40 \times 30 = 1,200$. (1 pt)

b. 1,889 is far from 1,200, so Kai's answer is too big. (1 pt)

c. $41 \times 29 = 41 \times 30 - 41 = 1,230 - 41 = 1,189$. (1 pt)

6

Summer camp

/ 4 pts

- a. $18 \times 64 = 640 + 512 = 1,152$ dollars. (1 pt)
- b. $45 \times 29 = 45 \times 30 - 45 = 1,350 - 45 = 1,305$ dollars. (1 pt)
- c. $1,152 + 1,305 = 2,457$ dollars. (1 pt)
- d. $2,500 - 2,457 = 43$. The camp has \$43 left. (1 pt)

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