

Multi-Digit Multiplication: math test solutions, Grade 5 – 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 Powers of 10

/ 3 pts

- a) 10^5 (1 pt)
- b) $10^3 = 1,000$ (1 pt)
- c) $73 \times 10,000 = 730,000$ (1 pt)

2 Multiples of 10

/ 3 pts

- a) $8 \times 3 = 24$, so 2,400. (1 pt)
- b) $5 \times 6 = 30$, so 30,000. (1 pt)
- c) $4 \times 2 = 8$, so 80,000. (1 pt)

3 Estimating

/ 3 pts

- a) $70 \times 40 = 2,800$. (1 pt)
- b) $300 \times 30 = 9,000$. (1 pt)
- c) Yes, 2,788 is very close to the estimate 2,800. (1 pt)

4 Area model

/ 4 pts

$20 \times 30 = 600$, $7 \times 30 = 210$, $20 \times 4 = 80$, $7 \times 4 = 28$. (2 pts)

Sum: $600 + 210 + 80 + 28 = 918$. (1 pt)

So $27 \times 34 = 918$. (1 pt)

5 Standard algorithm

/ 4 pts

- a) $64 \times 3 = 192$, $64 \times 50 = 3,200$, total **3,392**. (2 pts)
- b) $238 \times 6 = 1,428$, $238 \times 40 = 9,520$, total **10,948**. (2 pts)

6 Stadium seats

/ 3 pts

- a) $40 \times 140 = 5,600$ (or $40 \times 100 = 4,000$ as a rough value). (1 pt)
- b) $135 \times 2 = 270$, $135 \times 40 = 5,400$, total **5,670**. (1 pt)
- c) The stadium has 5,670 seats. (1 pt)



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