

Multi-Digit Multiplication: math test, Grade 5 – download the PDF

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

1 Powers of 10

/ 3 pts

- a) Write $10 \times 10 \times 10 \times 10 \times 10$ as a power of 10.
- b) Give the value of 10^3 .
- c) Compute 73×10^4 .

2 Multiples of 10

/ 3 pts

Compute: a) 80×30 b) 500×60 c) $4,000 \times 20$

3 Estimating

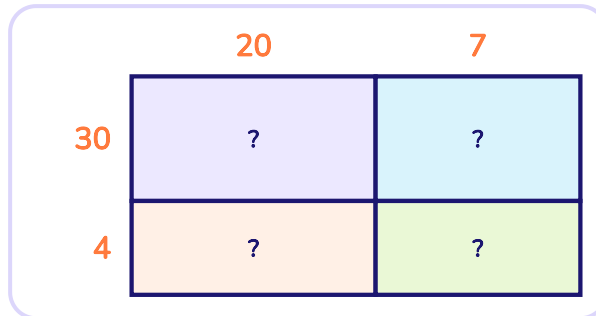
/ 3 pts

- a) Estimate 68×41 . b) Estimate 312×28 . c) Maria says $68 \times 41 = 2,788$. Is her answer reasonable? Explain.

4 Area model

/ 4 pts

Use the area model to compute 27×34 , with $27 = 20 + 7$ and $34 = 30 + 4$.



Find each partial product, then the total.

5 Standard algorithm

/ 4 pts

Use the standard algorithm. a) 64×53 b) 238×46

6 Stadium seats

/ 3 pts

A stadium has 42 sections. Each section has 135 seats. a) Estimate the number of seats. b) Find the exact number. c) Write a sentence that answers the question.



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