

Grade 5 - Multiplying Multi-Digit Whole Numbers - Test

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Name: _____ Class: _____ Date: ____/____/____

This test covers multiplying multi-digit whole numbers for Grade 5 (5.NBT.B.5). It has 9 questions worth 20 points. You have 45 minutes. Show every partial product and the placeholder zeros. Calculators are not allowed. Check each answer against an estimate.

About this test

- Grade: Grade 5
- Chapter: Multiplying Multi-Digit Whole Numbers
- Standards: 5.NBT.B.5
- Time: 45 minutes
- Total: 20 points

Question 1 - Short products [2 pts]

Find each product.

- a. 483×6 (1 point)
- b. 72×40 (1 point)

Question 2 - Three digits by two digits [3 pts]

Find the product: 365×24 .

Question 3 - Four digits by two digits [2 pts]

Find the product: $2,148 \times 36$.

Question 4 - Is it reasonable? [2 pts]

Diego finds that $692 \times 41 = 28,372$. Round each factor to its greatest place to estimate the product. Is Diego's answer reasonable? Explain.

Question 5 - Ethan's work [2 pts]

Ethan finds 36×52 by writing $36 \times 2 = 72$ and $36 \times 5 = 180$, then adding to get 252. Explain his mistake and find the correct product.

Question 6 - Area model [2 pts]

The area model shows 46×38 . Find the four partial products and the total.

	40	6
30	?	?
8	?	?

Area model.

Question 7 - Little League supplies [3 pts]

A Little League has 24 teams with 16 players on each team. Every player gets 3 baseballs.

24 teams $\times$ 16 players

16 players	16 players	16 players	16 players
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24 teams, 16 players on each team.

- How many players are in the league? (1 point)
- How many baseballs does the league give out? (2 points)

Question 8 - Bake sale totals [3 pts]

Mei sells 125 cupcakes for \$4 each and 86 muffins for \$3 each.



Prices.

- a. How much money does she make from cupcakes? (1 point)
- b. How much money does she make from muffins? (1 point)
- c. How much money does she make in all? (1 point)

Question 9 - Check 507 times 20 [1 pt]

Liam says that $507 \times 20 = 1,014$. Is he correct? Explain.