ALBERT

Name _____ Date _____

Decimal Operations Worksheet

Grade 6 · Common Core 6.NS.B.3

> Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

Practice

Builds the skill step by step.

1. Add: 4.75 + 2.6

2. Subtract: 9.2 − 3.45

3. Multiply: 3.4 × 2

4. What is 0.6 × 0.3?

   A. 1.8

   B. 0.9

   C. 0.018

   D. 0.18

5. Divide: 8.4 ÷ 4

6. Add: 12.08 + 0.92

7. Subtract: $15 - 6.7$

8. Where should the decimal point go in the product $2.5 \times 1.2 = 300$?

   A. 30.0

   B. 0.300

   C. 300

   D. 3.00

9. Multiply: 1.25×4

10. Divide: $6.3 \div 0.9$

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On Level

Grade-level practice.

1. Multiply: 4.36 × 2.5

2. Divide: 14.72 ÷ 3.2

3. Subtract: 20.05 − 7.368

4. Which has the greatest value?

   A. 0.5 × 0.1

   B. 0.5 + 0.1

   C. 0.5 − 0.1

   D. 0.5 ÷ 0.1

5. Gas costs $3.85 per gallon. How much do 12.4 gallons cost?

6. Divide: 0.252 ÷ 0.06

7. Add: 38.5 + 7.09 + 0.416

8. A 2.75-meter board is cut into pieces 0.25 meter long. How many pieces are there?

9. What is 7.2 ÷ 0.08?

   A. 90

   B. 9

   C. 0.9

   D. 900

10. Multiply: 0.07 × 0.4

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Challenge

Multi-step and word problems that stretch it.

1. Maya buys 3 notebooks at $2.49 each and a pen for $1.35. She pays with a $10 bill. How much change does she get?

2. A runner's times for three laps were 62.4, 59.85 and 61.2 seconds. What was her average lap time?

3. A rectangle is 4.8 centimeters long and 2.35 centimeters wide. What is its area?

4. Cheese costs $6.40 per pound. Jo spends $9.60 on cheese. How many pounds does she buy?

5. Leo says $0.4 \times 0.2 = 0.8$. Which statement explains his mistake?

   A. He counted only 1 decimal place; there are 2, so the product is 0.08.

   B. He should have added: $0.4 + 0.2 = 0.6$.

   C. He should have moved the decimal right: 8.

   D. $0.4 \times 0.2 = 0.8$ is correct.

6. A car travels 287.5 miles on 12.5 gallons of gas. How many miles per gallon does it get?

7. Evaluate: $(5.6 - 2.35) \times 1.2$

8. A store sells apples for $0.65 each or a bag of 8 for $4.80. How much do you save per apple by buying the bag?

9. Evaluate: $9.36 \div 1.2 + 0.45$

10. A recipe for 4 servings uses 1.5 cups of milk. How many cups of milk are needed for 10 servings?