

Multiplying and Dividing Decimals

Name: _____

Date: _____

Score: _____ / 18

Quick Review and Helpful Hints

To *multiply* decimals, ignore the points and multiply like whole numbers, then place the decimal point so the answer has as many decimal places as the two factors combined. To *divide*, shift the divisor's point to make it a whole number, shift the dividend's point the same number of places, and divide.

▷ **Example:** Multiply 0.6×0.4 . **Work:** Ignore the points: $6 \times 4 = 24$. The factors have $1 + 1 = 2$ decimal places, so place the point two spots in. ★ **Answer:** 0.24

$$\begin{array}{r} 0.6 \times 0.4 \\ \downarrow \\ 6 \times 4 = 24 \\ \Rightarrow 0.24 \end{array}$$

$1 + 1 = 2$ decimal places.

◆ Practice Problems

Multiply or divide.

1. 0.2×0.3

8. $4.8 \div 0.4$

2. 0.5×0.4

9. 0.25×4

3. 1.2×0.3

10. 1.5×1.5

4. 0.7×6

11. 0.08×5

5. 2.5×0.4

12. $7.2 \div 0.9$

6. 0.9×0.9

13. 0.6×0.05

7. $3.6 \div 0.6$

14. $9.6 \div 0.8$

◆ Word Problems

15. Three notebooks cost \$2.50 each. What is the total cost?

16. A \$12.60 bill is split equally among 6 people. How much does each pay?

17. Apples cost \$4.40 per pound. What is the cost of 0.5 pound?

18. A track lap is 0.7 mile. How many laps make 8.4 miles?



Answer Keys

- | | | |
|---------|----------|-------------|
| 1. 0.06 | 7. 6 | 13. 0.03 |
| 2. 0.2 | 8. 12 | 14. 12 |
| 3. 0.36 | 9. 1 | 15. \$7.50 |
| 4. 4.2 | 10. 2.25 | 16. \$2.10 |
| 5. 1 | 11. 0.4 | 17. \$2.20 |
| 6. 0.81 | 12. 8 | 18. 12 laps |

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Ignore the points and multiply: $2 \times 3 = 6$. The factors have $1 + 1 = 2$ decimal places, so place the point two spots in: 0.06. So the final answer is 0.06.
2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $5 \times 4 = 20$, with 2 decimal places: 0.20, which is 0.2. So the final answer is 0.2.
3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $12 \times 3 = 36$, with 2 decimal places: 0.36. So the final answer is 0.36.
4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $7 \times 6 = 42$, with 1 decimal place: 4.2. So the final answer is 4.2.
5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $25 \times 4 = 100$, with 2 decimal places: 1.00, which is 1. So the final answer is 1.
6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $9 \times 9 = 81$, with 2 decimal places: 0.81. So the final answer is 0.81.
7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Make the divisor whole by moving both points one place: $36 \div 6 = 6$. So the final answer is 6.
8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Move both points one place: $48 \div 4 = 12$. So the final answer is 12.
9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $25 \times 4 = 100$, with 2 decimal places: 1.00 = 1. So the final answer is 1.
10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $15 \times 15 = 225$, with 2 decimal places: 2.25. So the final answer is 2.25.
11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $8 \times 5 = 40$, with 2 decimal places: 0.40 = 0.4. So the final answer is 0.4.
12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Move both points one place: $72 \div 9 = 8$. So the final answer is 8.
13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $6 \times 5 = 30$, with $1 + 2 = 3$ decimal places: 0.030 = 0.03. So the final answer is 0.03.
14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Move both points one place: $96 \div 8 = 12$. So the final answer is 12.
15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Multiply the price by the quantity: $2.50 \times 3 = \$7.50$. So the final answer is \$7.50.
16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Divide the bill among the people: $12.60 \div 6 = \$2.10$ each. So the final answer is \$2.10.
17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Multiply the cost per pound by the weight: $4.40 \times 0.5 = \$2.20$. So the final answer is \$2.20.
18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Divide the distance by the lap length: $8.4 \div 0.7$; moving both points gives $84 \div 7 = 12$ laps. So the final answer is 12 laps.



Keep Building FTCE General Knowledge Math Skills

Recommended Effortless Math resources



The Most Comprehensive
FTCE Math
Preparation Bundle

This perfect bundle contains

- ✓ FTCE Math for Beginners 2026
- ✓ FTCE Math Practice Workbook 2026
- ✓ FTCE Math Full Study Guide 2024-2025
- ✓ FTCE Math in 10 Days!

Visit www.EffortlessMath.com for Online Math Practice

Reza Nazari

The Most Comprehensive FTCE Math Preparation Bundle



Scan Me
Download Instantly

STUDENT FAVORITE - FTCE General Knowledge Math for Beginners



The Ultimate Step by Step Guide
to Preparing for the FTCE General Knowledge Math Test

FTCE 2026
General Knowledge
Math 2026
for
Beginners

Reza Nazari

Recommended by Test Prep Experts

FTCE General Knowledge Math for Beginners 2026

Step-by-step lessons, topic practice, and full review support for students who want a calm path through FTCE General Knowledge Math preparation.

A strong companion for self-study, tutoring, homework, and targeted review.

PDF Edition



Scan Me
Download Instantly