

Dividing Decimals by Whole Numbers

Grade 5 Math • Section 7.4

Name: _____

Date: _____

Score: _____ / 17

Quick Review and Helpful Hints

Steps: (1) Place the decimal point in the quotient directly above the decimal in the dividend. (2) Divide as with whole numbers. (3) Add zeros after the decimal if needed.

Lightbulb: $4.56 \div 3$: divide normally. Put the decimal in the answer above the decimal in 4.56. $4.56 \div 3 = 1.52$.

Warning: If the divisor doesn't go into the first digit, place a 0 in the quotient and continue.

Example: Find $7.68 \div 4$.

Steps: 4 goes into 7 once (remainder 3). Bring down 6: $36 \div 4 = 9$. Bring down 8: $8 \div 4 = 2$. Answer: 1.92.

Lightbulb: Answer: 1.92

Practice Problems

Divide.

- | | | |
|--------------------------|----------------------------|----------------------------|
| 1. $8.4 \div 3 =$ _____ | 6. $15.6 \div 8 =$ _____ | 11. $10.8 \div 6 =$ _____ |
| 2. $6.25 \div 5 =$ _____ | 7. $3.15 \div 9 =$ _____ | 12. $0.945 \div 9 =$ _____ |
| 3. $9.36 \div 4 =$ _____ | 8. $27.5 \div 5 =$ _____ | 13. $50.4 \div 8 =$ _____ |
| 4. $14.7 \div 7 =$ _____ | 9. $0.216 \div 3 =$ _____ | 14. $2.52 \div 4 =$ _____ |
| 5. $0.48 \div 6 =$ _____ | 10. $4.32 \div 12 =$ _____ | 15. $7.56 \div 7 =$ _____ |

Word Problems

16. A rope that is 15.6 meters long is cut into 8 equal pieces. How long is each piece?

17. Five friends equally share a bill of \$42.75. How much does each person pay?



Answer Keys

- | | |
|----------|------------|
| 1. 2.8 | 10. 0.36 |
| 2. 1.25 | 11. 1.8 |
| 3. 2.34 | 12. 0.105 |
| 4. 2.1 | 13. 6.3 |
| 5. 0.08 | 14. 0.63 |
| 6. 1.95 | 15. 1.08 |
| 7. 0.35 | 16. 1.95 m |
| 8. 5.5 | 17. \$8.55 |
| 9. 0.072 | |

Step-by-Step Explanations

1. Start with the main idea. For dividing decimals by whole numbers, line up the decimal values and compute $8.4 \div 3 = 2.8$. Write the given information first, then choose the operation that matches the situation.
2. Keep the work tidy. For dividing decimals by whole numbers, line up the decimal values and compute $6.25 \div 5 = 1.25$. A quick estimate helps confirm that the final answer is reasonable.
3. Look at what the numbers mean. For dividing decimals by whole numbers, line up the decimal values and compute $9.36 \div 4 = 2.34$. The explanation should show both the computation and why that computation fits the problem.
4. Use the setup first. For dividing decimals by whole numbers, line up the decimal values and compute $14.7 \div 7 = 2.1$. Write the given information first, then choose the operation that matches the situation.
5. Check the size of the answer. For dividing decimals by whole numbers, line up the decimal values and compute $0.48 \div 6 = 0.08$. A quick estimate helps confirm that the final answer is reasonable.
6. Match the operation to the words. For dividing decimals by whole numbers, line up the decimal values and compute $15.6 \div 8 = 1.95$. The explanation should show both the computation and why that computation fits the problem.
7. Write the important values first. For dividing decimals by whole numbers, line up the decimal values and compute $3.15 \div 9 = 0.35$. Write the given information first, then choose the operation that matches the situation.
8. Follow the pattern carefully. For dividing decimals by whole numbers, line up the decimal values and compute $27.5 \div 5 = 5.5$. A quick estimate helps confirm that the final answer is reasonable.
9. Start with the main idea. For dividing decimals by whole numbers, line up the decimal values and compute $0.216 \div 3 = 0.072$. The explanation should show

both the computation and why that computation fits the problem.

10. Keep the work tidy. For dividing decimals by whole numbers, line up the decimal values and compute $4.32 \div 12 = 0.36$. Write the given information first, then choose the operation that matches the situation.
11. Look at what the numbers mean. For dividing decimals by whole numbers, line up the decimal values and compute $10.8 \div 6 = 1.8$. A quick estimate helps confirm that the final answer is reasonable.
12. Use the setup first. For dividing decimals by whole numbers, line up the decimal values and compute $0.945 \div 9 = 0.105$. The explanation should show both the computation and why that computation fits the problem.
13. Check the size of the answer. For dividing decimals by whole numbers, line up the decimal values and compute $50.4 \div 8 = 6.3$. Write the given information first, then choose the operation that matches the situation.
14. Match the operation to the words. For dividing decimals by whole numbers, line up the decimal values and compute $2.52 \div 4 = 0.63$. A quick estimate helps confirm that the final answer is reasonable.
15. Write the important values first. For dividing decimals by whole numbers, line up the decimal values and compute $7.56 \div 7 = 1.08$. The explanation should show both the computation and why that computation fits the problem.
16. Follow the pattern carefully. For dividing decimals by whole numbers, divide the rope length by 8: $15.6 \div 8 = 1.95$ m. Write the given information first, then choose the operation that matches the situation.
17. Start with the main idea. For dividing decimals by whole numbers, divide the bill equally: $42.75 \div 5 = 8.55$. A quick estimate helps confirm that the final answer is reasonable.



Want Even More Practice?

Check Out Our Other Massachusetts MCAS Test Books!



Massachusetts MCAS Grade 5 Math Preparation Bundle

18 full-length practice tests across three books
(5 + 6 + 7)

No repeated questions—maximum practice value!



18 Tests!
3 Books
One Bundle

Important: All our test books contain **unique, completely different tests** from each other! Each book offers fresh practice questions—no repeats!

5 Practice Tests

- ✓ 5 complete practice tests with detailed explanations
- ✓ Perfect foundation for MCAS test preparation
- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

Start your practice journey!

6 Practice Tests

- ✓ 6 complete practice tests with detailed explanations
- ✓ **Unique tests**—different from the 5 tests book
- ✓ Perfect for more practice after mastering 5 tests
- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

Take your practice to the next level!

7 Practice Tests

- ✓ 7 complete practice tests for maximum preparation
- ✓ **Unique tests**—different from 5 and 6 tests books
- ✓ The most comprehensive practice for Grade 5
- ✓ Ideal for students aiming for top scores
- ✓ Extensive practice builds mastery and confidence

Go all the way with comprehensive practice!