Dividing Decimals by Decimals

Grade 5 Math • Section 7.5

Name: _____	Date: _____	Score: _____ / 17

Quick Review and Helpful Hints

Steps: (1) Move the decimal in the **divisor** to make it a whole number. (2) Move the decimal in the **dividend** the same number of places. (3) Divide normally.

$6.3 \div 0.9$: move both decimals 1 place right $\rightarrow 63 \div 9 = 7$.

You must move the decimal the **same** number of places in both the divisor and the dividend.

Example: Find $3.78 \div 0.6$.

Move the decimal 1 place right in both: $37.8 \div 6 = 6.3$.

Answer: 6.3

Practice Problems

Divide.

1. $4.5 \div 0.9 =$ _____
2. $7.2 \div 0.8 =$ _____
3. $3.6 \div 0.12 =$ _____
4. $8.1 \div 0.3 =$ _____
5. $5.04 \div 0.7 =$ _____
6. $12.6 \div 0.06 =$ _____
7. $0.48 \div 0.4 =$ _____
8. $9.36 \div 1.2 =$ _____
9. $6.25 \div 0.25 =$ _____
10. $0.72 \div 0.08 =$ _____
11. $15.5 \div 0.5 =$ _____
12. $2.88 \div 0.12 =$ _____
13. $4.86 \div 0.6 =$ _____
14. $10.5 \div 0.35 =$ _____
15. $0.96 \div 0.04 =$ _____

Word Problems

16. A piece of wire is 8.4 meters long. It is cut into pieces each 0.6 meters long. How many pieces are there?

_____

17. A car travels 14.4 miles using 0.8 gallons of gas. How many miles per gallon does it get?

_____

Scan Me

Answer Keys

1. 5
2. 9
3. 30
4. 27
5. 7.2
6. 210
7. 1.2
8. 7.8
9. 25
10. 9
11. 31
12. 24
13. 8.1
14. 30
15. 24
16. 14
17. 18

Step-by-Step Explanations

1. Start with the main idea. For dividing decimals by decimals, line up the decimal values and compute $4.5 \div 0.9 = 5$. Write the given information first, then choose the operation that matches the situation.

2. Keep the work tidy. For dividing decimals by decimals, line up the decimal values and compute $7.2 \div 0.8 = 9$. A quick estimate helps confirm that the final answer is reasonable.

3. Look at what the numbers mean. For dividing decimals by decimals, line up the decimal values and compute $3.6 \div 0.12 = 30$. The explanation should show both the computation and why that computation fits the problem.

4. Use the setup first. For dividing decimals by decimals, line up the decimal values and compute $8.1 \div 0.3 = 27$. Write the given information first, then choose the operation that matches the situation.

5. Check the size of the answer. For dividing decimals by decimals, line up the decimal values and compute $5.04 \div 0.7 = 7.2$. A quick estimate helps confirm that the final answer is reasonable.

6. Match the operation to the words. For dividing decimals by decimals, line up the decimal values and compute $12.6 \div 0.06 = 210$. The explanation should show both the computation and why that computation fits the problem.

7. Write the important values first. For dividing decimals by decimals, line up the decimal values and compute $0.48 \div 0.4 = 1.2$. Write the given information first, then choose the operation that matches the situation.

8. Follow the pattern carefully. For dividing decimals by decimals, line up the decimal values and compute $9.36 \div 1.2 = 7.8$. A quick estimate helps confirm that the final answer is reasonable.

9. Start with the main idea. For dividing decimals by decimals, line up the decimal values and compute $6.25 \div 0.25 = 25$. The explanation should show both the computation and why that computation fits the problem.

10. Keep the work tidy. For dividing decimals by decimals, line up the decimal values and compute $0.72 \div 0.08 = 9$. Write the given information first, then choose the operation that matches the situation.

11. Look at what the numbers mean. For dividing decimals by decimals, line up the decimal values and compute $15.5 \div 0.5 = 31$. A quick estimate helps confirm that the final answer is reasonable.

12. Use the setup first. For dividing decimals by decimals, line up the decimal values and compute $2.88 \div 0.12 = 24$. 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 decimals, line up the decimal values and compute $4.86 \div 0.6 = 8.1$. Write the given information first, then choose the operation that matches the situation.

14. Match the operation to the words. For dividing decimals by decimals, line up the decimal values and compute $10.5 \div 0.35 = 30$. A quick estimate helps confirm that the final answer is reasonable.

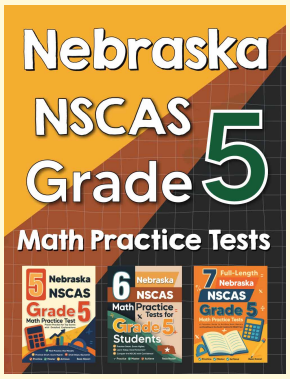
15. Write the important values first. For dividing decimals by decimals, line up the decimal values and compute $0.96 \div 0.04 = 24$. The explanation should show both the computation and why that computation fits the problem.

16. Follow the pattern carefully. For dividing decimals by decimals, divide total length by piece length: $8.4 \div 0.6 = 14$. Write the given information first, then choose the operation that matches the situation.

17. Start with the main idea. For dividing decimals by decimals, miles per gallon is $14.4 \div 0.8 = 18$. A quick estimate helps confirm that the final answer is reasonable.

Want Even More Practice?

Check Out Our Other Nebraska NSCAS Growth Test Books!



7 Nebraska NSCAS Grade 5 Math Practice Tests

7 full-length Grade 5 math practice tests with detailed explanations

Verified live product page for this state or program.

7 Tests
Detailed
Explanations

Important: Use the QR code for the verified live product page. Practice-test availability can vary by state or program, so this worksheet links to the strongest matching live Grade 5 math resource.

Targeted Review

- ✓ Focused Grade 5 math practice by tested skill
- ✓ Clear question formats for steady review
- ✓ Useful for homework, tutoring, and test prep
- ✓ Helps students find gaps before test day

Review the essentials first.

7 Practice Tests

- ✓ 7 complete practice tests for realistic preparation
- ✓ Detailed explanations support independent study
- ✓ Aligned with the selected state or program
- ✓ Strong fit for students who need more test-style practice

Build test stamina with full practice.

Confidence Builder

- ✓ Mixes skill review with test-taking practice
- ✓ Helps parents and teachers track readiness
- ✓ Encourages consistent practice over time
- ✓ Gives students a clearer path to mastery

Practice with purpose.