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?

_____

Answer Keys

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

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.

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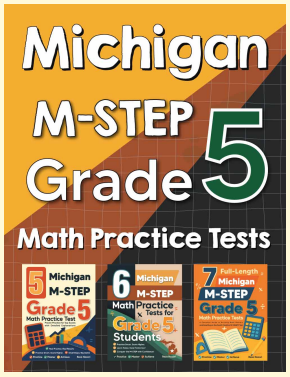

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