

# MY Homework

## Lesson 14

### Divide Decimals by Powers of Ten

## Homework Helper



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Find  $36.4 \div 100$ .

**One Way** Divide.

$$\begin{array}{r}
 0.364 \\
 100 \overline{) 36.4} \\
 \underline{- 30 \ 0} \\
 6 \ 40 \\
 \underline{- 6 \ 00} \\
 400 \\
 \underline{- 400} \\
 0
 \end{array}$$

The non-zero digits are the same. The decimal point in the quotient moved two places to the left.

**Another Way** Move the decimal point.

Dividing a decimal by 100 moves the decimal point two places to the left.

$$36.4 \rightarrow 0.364$$

So,  $36.4 \div 100 = 0.364$ .

**Check** Use multiplication.  $0.364 \times 100 = 36.4$

## Practice

Divide. Check your answer using multiplication.

1.  $8.3 \div 100 =$  \_\_\_\_\_

2.  $208 \div 10^2 =$  \_\_\_\_\_

3.  $0.07 \div 1 =$  \_\_\_\_\_

4.  $32.7 \div 1,000 =$  \_\_\_\_\_



# Problem Solving

Use the table to answer Exercises 5–7.

5. Each row of the grocery store parking lot has 10 parking spots of equal width. What is the width for each spot?

\_\_\_\_\_


Location	Number of Parking Spots per Row	Combined Width (m)
Grocery Store	10	31.92
Hardware Store	10	31.96
Mall	10	31.30

6. How much space is given for each parking spot at the Mall parking lot if each spot has an equal width?

\_\_\_\_\_

7. Which location gives the greatest space for each parking spot?

\_\_\_\_\_

8. **Mathematical PRACTICE**  **Model Math** Christy purchased 6.75 pounds of licorice. How much licorice does she need to put in each bag if she divides the total amount into 10 equal-sized bags?

\_\_\_\_\_

9. **Mathematical PRACTICE**  **Explain to a Friend** Tell what number you must divide 180 by to get 1.8.

\_\_\_\_\_

## Test Practice

10. Tomas buys a trumpet for \$108.90. He will make 10 equal payments to pay for the trumpet. What is the amount of each payment that Tomas will make?

- (A) \$1.09                      (C) \$19.90  
(B) \$10.89                    (D) \$108.90