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## Divide Decimals by Whole Numbers

## I Can divide decimals by whole numbers.

## Florida's B.E.S.T.

Number Sense \& Operations 5.NSO.2.4, 5.NSO.2.5

- Mathematical Thinking \& Reasoning MTR.1.1, MTR.3.1, MTR.4.1, MTR.5.1, MTR.6.1, MTR.7. 1


## UNLOCK the Problem Raind

In a swimming relay, each swimmer swims an equal part of the total distance. Brianna and 3 other swimmers won a relay in 5.68 minutes. What is the average time each relay team member swam?

> How many swimmers are part of the relay team?

## One Way Use place value.



## THINK AND RECORD

STEP 1 Divide the ones.

| 1 | Divide. 5 ones $\div 4$ |
| :--- | :--- |
| $4 \longdiv { 5 . 6 8 }$ | Multiply. $4 \times 1$ one |
| -4 | Subtract. 5 ones -4 ones |

Check. $\qquad$ one(s) cannot be shared among 4 groups without regrouping.

STEP 2 Divide the tenths.
Divide. $\qquad$ tenths $\div 4$

Multiply. $4 \times$ $\qquad$ tenths

Subtract. $\qquad$ tenths - $\qquad$ tenths

Check. $\qquad$ tenth(s) cannot be shared among 4 groups.

STEP 3 Divide the hundredths.


Divide. 8 hundredths $\div 4$
Multiply. $4 \times$ $\qquad$ hundredths

Subtract. $\qquad$ hundredths - $\qquad$ hundredths

Check. $\qquad$ hundredth(s) cannot be shared among 4 groups.

Place the decimal point in the quotient to separate the ones and the tenths.

So, each girl swam an average of $\qquad$ minutes.

## Another Way Use an estimate.

Divide as you would with whole numbers.
Divide. $\$ 40.89 \div 47$

- Estimate the quotient. 4,000 hundredths $\div 50=80$ hundredths, or $\$ 0.80$
- Divide the tenths.
- Divide the hundredths. When the remainder is zero and there are no more digits in the dividend, the division is complete.
- Use your estimate to place the decimal point. Place a zero to show there are no ones.

So, $\$ 40.89 \div 47$ is $\qquad$ .

- MTR Explain how you used the estimate to place the decimal point in the quotient.
$\qquad$
$\qquad$

Try This! Divide. Use multiplication to check your work.

## Check.



## Share and Show

## Math

Board
Write the quotient with the decimal point placed correctly.

1. $4.92 \div 2=246$ $\qquad$ 2. $50.16 \div 38=132$
