

Number Sense: Decimal Division

You have learned how to estimate when dividing with decimals. You can also use number sense to place the decimal point in the quotient.

How many quarters are in \$3.50?

When you divide decimals by decimals, you can just divide the decimals as if they are whole numbers. After finding the quotient, place the decimal by estimation.

$\$3.50 \div 0.25 = ?$ Write the original problem

$\begin{array}{r} \downarrow \quad \downarrow \\ 350 \div 25 = 14 \end{array}$ Whole-number division

Place the decimal: 14. Use estimation

How many quarters are in \$3.50? _____

For questions 1-4, place the decimal correctly.

1. $9.72 \div 3.6 = 27$ _____ 2. $6.39 \div 0.72 = 8875$ _____

3. $0.81 \div 0.09 = 90$ _____ 4. $1.08 \div 0.27 = 40$ _____

5. Nathan and Jorge are working on a decimal division problem in math class. After finishing the problem, it looked like this: $4.76 \div 2.5 = 0.19$. Nathan said that the decimal is incorrectly placed in the quotient, and Jorge disagrees. Who is right? Explain your answer.

6. Is 1.72 a reasonable answer for $86.25 \div 0.5$?
