

Notes ☺

3.7 Divide Decimals by Whole Numbers (6.NS.3)

Rules

When dividing a decimal by whole number, divide as with whole numbers. Then, place the decimal in the quotient directly above its place in the dividend.

*** Move the decimal straight up!**

Guided Practice: Divide. Round to the nearest tenth if necessary.

1. $3.6 \div 4$

$$\begin{array}{r} 0.9 \\ 4 \overline{) 3.6} \\ \underline{-36} \\ 0 \end{array}$$

0.9

2.) $12.32 \div 22$

$$\begin{array}{r} 00.56 \\ 22 \overline{) 12.32} \\ \underline{-110} \downarrow \\ 132 \\ \underline{-132} \\ 0 \end{array}$$

0.56

3.) $69.904 \div 34$

$$\begin{array}{r} 02.056 \\ 34 \overline{) 69.904} \\ \underline{-68} \downarrow \\ 190 \\ \underline{-170} \downarrow \\ 204 \\ \underline{-204} \\ 0 \end{array}$$

2.056

4.) Light travels 5.88 trillion miles in one year. How far will light travel in one month?
(HINT: How many months are in a year?)

$$\begin{array}{r} 0.49 \\ 12 \overline{) 5.88} \\ \underline{-48} \downarrow \\ 108 \\ \underline{-108} \\ 0 \end{array}$$

0.49 trillion miles

5.) Four dozen bagels costs \$30.00. How much change will you receive if you pay for a dozen bagels with a ten-dollar bill?

#1

$$\begin{array}{r} 7.50 \\ 4 \overline{) 30.00} \\ \underline{-28} \downarrow \\ 200 \\ \underline{-200} \\ 0 \end{array}$$

#2

$$\begin{array}{r} 10.00 \\ - 7.50 \\ \hline 2.50 \end{array}$$

\$2.50

Building on Essential Question - How can estimating quotients help you to place the decimal correctly?

The estimate can help you determine if you have misplaced the decimal.

Rate Yourself - How confident are you about dividing decimals by whole numbers? Check the box that applies.



Rate yourself