

Multiplying and Dividing Fraction Word Problems

First: - Take up #s 24, 28 & 32 from the HW

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$$\begin{aligned}
 & 1\frac{3}{5} \div 2\frac{7}{10} \\
 &= \frac{8}{5} \div \frac{27}{10} \\
 &= \frac{8}{5} \times \frac{27}{27} \\
 &= \frac{8 \times 2}{1 \times 27} \\
 &= \frac{16}{27}
 \end{aligned}$$

The RECIPROCAL of $\frac{27}{10}$

You flip it upside down

We Now treat this as a multiplication.

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$$\begin{aligned}
 & 12\frac{1}{2} \div 4\frac{3}{8} \\
 & = \frac{25}{2} \div \frac{35}{8} \\
 & = \frac{\cancel{5}^1 \cancel{25}^1}{\cancel{2}^1} \times \frac{\cancel{4}^1 \cancel{8}^1}{\cancel{7}^1 \cancel{5}^1} \quad \left. \begin{array}{l} \text{Reciprocal} \\ \text{[flip it!]} \end{array} \right\} \\
 & = \frac{5 \times 4}{1 \times 7} \\
 & = \frac{20}{7} = 2\frac{6}{7}
 \end{aligned}$$

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$$\begin{aligned}
 & 3\frac{1}{7} \div 1\frac{5}{21} \\
 & = \frac{22}{7} \div \frac{26}{21} \\
 & = \frac{\cancel{11}^1 \cancel{22}^1}{\cancel{7}^1} \times \frac{\cancel{3}^1 \cancel{21}^1}{\cancel{13}^1 \cancel{26}^1} \quad \left. \begin{array}{l} \text{Reciprocal} \end{array} \right\} \\
 & = \frac{11 \times 3}{1 \times 13} \\
 & = \frac{33}{13} = 2\frac{7}{13}
 \end{aligned}$$

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Practice - Homework Questions

From the handout can you do

#s 3, 5, 7, 15, 18, 20, 22, 23, 25 & 26

Note: £ is like \$ (it is the currency in the UK)

Depreciation means losing value

Another way to find a fraction of a whole number is to...

$$\frac{\text{Amount}}{\text{Denominator}} \times \text{Numerator}$$

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