

Remainders

Fraction & Decimal

Main Idea: Division often contains remainders. There are three ways to show a remainder: fraction, decimal, and "r".

Fraction:

$$\begin{array}{r} 3 \frac{2}{4} \\ 4 \overline{)14} \\ - 12 \\ \hline 2 \end{array}$$

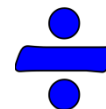
Remainder over the divisor.

$3 \frac{1}{2}$ *Always use lowest terms.*

Decimal:

$$\begin{array}{r} 2.5 \\ 2 \overline{)5.0} \\ - 4 \\ \hline 10 \\ - 10 \\ \hline 0 \end{array}$$

Add a decimal point and zeros.



How many zeros do I add?

Sometimes a number does not end evenly. In general, add up to three zeros. If it still does not end, then round to the nearest hundredths.

Divide and use a fraction remainder in lowest terms. Show work.

1) $35 \div 8 =$	2) $29 \div 3 =$	3) $102 \div 10 =$	4) $86 \div 4 =$
5) $157 \div 8 =$	6) $49 \div 2 =$	7) $790 \div 3 =$	8) $266 \div 8 =$

Divide and use a decimal remainder. Round to the nearest hundredth, if needed. Show work.

9) $42 \div 4 =$	10) $64 \div 5 =$	11) $37 \div 3 =$	12) $884 \div 10 =$
13) $40 \div 6 =$	14) $90 \div 8 =$	15) $59 \div 9 =$	16) $122 \div 11 =$

Joke: Where can you stay warm in a cold classroom? The corner - it's always 90 degrees!

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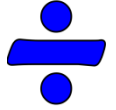
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$$\begin{array}{r} 2.5 \\ 2 \overline{)5.0} \\ - 4 \\ \hline 10 \\ - 10 \\ \hline 0 \end{array}$$

Add a decimal point and zeros.



How many zeros do I add?

Sometimes a number does not end evenly. In general, add up to three zeros. If it still does not end, then round to the nearest hundredths.

Divide and use a fraction remainder in lowest terms. Show work.

1) $35 \div 8 = 4 \frac{3}{8}$	2) $29 \div 3 = 9 \frac{2}{3}$	3) $102 \div 10 = 10 \frac{1}{5}$	4) $86 \div 4 = 21 \frac{1}{2}$
5) $157 \div 8 = 19 \frac{5}{8}$	6) $49 \div 2 = 24 \frac{1}{2}$	7) $790 \div 3 = 263 \frac{1}{3}$	8) $266 \div 8 = 33 \frac{1}{4}$

Divide and use a decimal remainder. Round to the nearest hundredth, if needed. Show work.

9) $42 \div 4 = 10.5$	10) $64 \div 5 = 12.8$	11) $37 \div 3 = \approx 12.33$	12) $884 \div 10 = 88.4$
13) $40 \div 6 = \approx 6.67$	14) $90 \div 8 = 11.25$	15) $59 \div 9 = \approx 6.56$	16) $122 \div 11 = \approx 11.09$

Joke: Where can you stay warm in a cold classroom? The corner - it's always 90 degrees!