

Fraction, Decimals and Percentages Countdown Answers and Support

$$1) \frac{4}{6} \times \frac{2}{9} = \frac{8}{54} \quad (\text{or } \frac{4}{27} \text{ if simplified})$$

$$2) 3\frac{2}{4} + 2\frac{4}{5} =$$

Make the denominators the same.

$$3\frac{10}{20} + 2\frac{16}{20} = 5\frac{26}{20} = 6\frac{6}{20} \quad (\text{or } 6\frac{3}{10} \text{ if simplified})$$

You can't leave this as an improper fraction

$$3) 6 \times 2\frac{3}{7} =$$

Partition $2\frac{3}{7}$.

$$6 \times 2 = 12$$

$$\frac{6}{1} \times \frac{3}{7} = \frac{18}{7} = 2\frac{4}{7}$$

Add back together.

$$12 + 2\frac{4}{7} = 14\frac{4}{7}$$

$$4) \frac{2}{7} \div \frac{6}{1}$$

Keep 1st
Flip 2nd
Change sign
($\div \rightarrow \times$)

$$\frac{2}{7} \times \frac{1}{6} = \frac{2}{42} \quad (\frac{1}{21} \text{ is simplified})$$

$$5) \frac{2}{5} \div \frac{3}{8}$$

$$\frac{2}{5} \times \frac{8}{3} = \frac{16}{15} = 1\frac{1}{15}$$

↑
improper fraction

Keep 1st
Flip 2nd
Change the sign ($\div \rightarrow \times$)

$$6) 2\frac{2}{6} - 1\frac{2}{3}$$

$$2\frac{2}{6} - 1\frac{4}{6}$$

$$\frac{14}{6} - \frac{10}{6} = \frac{4}{6}$$

① Make the denominators the same.

② Convert the mixed number fractions into improper fractions.

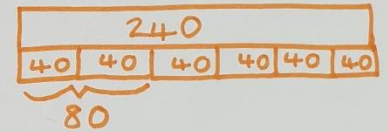
7) Find $\frac{2}{6}$ of 240.

Find $\frac{1}{6}$ first. $24 \div 6 = 4$
or $240 \div 6 = 40$

$$\frac{1}{6} = 40$$

$$40 \times 2 = 80$$

$$\frac{2}{6} = 80$$



$$8) 0.51$$

↓

$$51\%$$

or 0.51

$$55\%$$

↓

$$55\%$$

$$0.55$$

$$\frac{3}{5}$$

↓

$$\frac{6}{10} = \frac{60}{100} = 60\%$$

$$0.6$$

$$\frac{4}{10}$$

↓

$$\frac{40}{100} = 40\%$$

$$0.4$$

$$0.05$$

↓

$$5\%$$

$$0.05$$

Convert them all into percentages or decimals so you can compare them.

Smallest 0.05 $\frac{4}{10}$ 0.51 55% $\frac{3}{5}$ largest

$$9) \frac{5}{8}$$

$$\frac{5}{8} = 5 \div 8$$

$$8 \overline{) 5.5000} \\ \underline{0.625}$$

0.63 when rounded
to 2 decimal places

$$10) 10\% \text{ of } 180 = 18 \quad 180 \div 10 \quad \begin{array}{r} 18 \\ \hline 180 \\ \hline 0 \end{array}$$

$$25\% \text{ of } 180 = 45 \quad 180 \div 2 = 90 \\ 90 \div 2 = 45$$

(halve it and then halve it again)

OR

$$180 \div 4 = 45$$

$$22\% \text{ of } 180 \\ = 39.6$$

$$\begin{array}{l} 10\% = 18 \\ 20\% = 36 \\ 1\% = 1.8 \\ 2\% = 3.6 \end{array} \quad \begin{array}{l} \leftarrow \\ \leftarrow + \end{array}$$