

Thursday 21st May

WALT: Consolidate our knowledge of fractions, percentages and decimals

Let's revise some of the most important ideas to remember in order to get fraction questions correct.

Multiply Fractions

Multiply the numerators	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$
Multiply the denominators	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$
Reduce the fraction if necessary	$\frac{6}{20} = \frac{3}{10}$

Now try these equations:

$\frac{3}{8} \times \frac{5}{6} =$	$\frac{2}{3} \times \frac{4}{8} =$	$\frac{1}{2} \times \frac{2}{4} =$
$\frac{2}{6} \times \frac{1}{2} =$	$\frac{1}{3} \times \frac{2}{3} =$	$\frac{4}{6} \times \frac{2}{6} =$
$\frac{3}{8} \times \frac{7}{8} =$	$\frac{1}{2} \times \frac{2}{3} =$	$\frac{6}{8} \times \frac{2}{3} =$

Multiply fractions with whole numbers

Common error when multiplying a fraction by a whole number

Multiplying both numerator and denominator by the number

Doing this

$$\frac{3}{4} \times 5 = \frac{15}{20}$$

Instead of this

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4} = 3\frac{3}{4}$$

Writing the whole number as a fraction helps

Now try these equations:

$$\frac{5}{8} \times 2 =$$

$$\frac{3}{4} \times 3 =$$

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

$$\frac{1}{2} \times 5 =$$

$$\frac{3}{8} \times 3 =$$

$$5 \times \frac{6}{11} =$$

$$\frac{5}{6} \times 6 =$$

$$\frac{1}{4} \times 7 =$$

$$10 \times \frac{1}{4} =$$

Answers:

Multiplying fractions:

$$\frac{3}{8} \times \frac{5}{6} = \frac{5}{16}$$

$$\frac{2}{3} \times \frac{4}{8} = \frac{1}{3}$$

$$\frac{1}{2} \times \frac{2}{4} = \frac{1}{4}$$

$$\frac{2}{6} \times \frac{1}{2} = \frac{1}{6}$$

$$\frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$$

$$\frac{4}{6} \times \frac{2}{6} = \frac{2}{9}$$

$$\frac{3}{8} \times \frac{7}{8} = \frac{21}{64}$$

$$\frac{1}{2} \times \frac{2}{3} = \frac{1}{3}$$

$$\frac{6}{8} \times \frac{2}{3} = \frac{1}{2}$$

Multiplying fractions and whole numbers

$$\frac{5}{8} \times 2 = 1 \frac{1}{4}$$

$$\frac{3}{4} \times 3 = 2 \frac{1}{4}$$

$$2 \times \frac{6}{7} = 1 \frac{5}{7}$$

$$\frac{1}{2} \times 5 = 2 \frac{1}{2}$$

$$\frac{3}{8} \times 3 = 1 \frac{1}{8}$$

$$5 \times \frac{6}{11} = 2 \frac{8}{11}$$

$$\frac{5}{6} \times 6 = 5$$

$$\frac{1}{4} \times 7 = 1 \frac{3}{4}$$

$$10 \times \frac{1}{4} = 2 \frac{1}{2}$$