

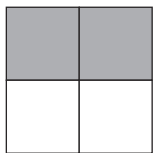
Guidance

More fractions and decimals questions can be found in this resource:

<http://www.twinkl.co.uk/resource/t2-m-1522-ks2-reasoning-test-practice-fractions-and-decimals-resource-pack>

Equivalent Fractions

The basis of equivalent fractions is that all fractions can be expressed in different ways.



This diagram shows that $\frac{1}{2}$ is equivalent to $\frac{2}{4}$. Equivalent fractions can also be found by multiplying or dividing the numerator and denominator by the same number.

$$\frac{2}{3} = \frac{8}{12} : \text{multiply numerator and denominator by 4.}$$

Ordering Fractions

There are 2 main ways to order fractions with different denominators. One is to find the equivalent fractions with the same denominator. The other is to convert the fractions into decimals.

The fractions in Q1 are $\frac{2}{3}$, $\frac{5}{6}$, $\frac{5}{9}$, $\frac{7}{12}$. The denominators are all multiples of 3. In this case question, only 3 fractions are needed, so converting 3 of the fractions to twelfths is a good option.

$$\frac{2}{3} = \frac{8}{12}, \frac{5}{6} = \frac{10}{12}, \frac{7}{12} = \frac{7}{12}. \text{ These can be ordered as follows: } \frac{7}{12} < \frac{2}{3} < \frac{5}{6}.$$

Converting to decimals can be done using division, or can rely upon knowledge of common fractions and decimal equivalents. $\frac{2}{3} = 0.667$, $\frac{5}{6} = 0.833$, $\frac{5}{9} = 0.556$, giving $\frac{5}{9} < \frac{2}{3} < \frac{5}{6}$.

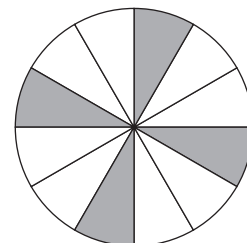
Fraction Problems

Fraction problems can take many forms and children need to be confident in using fractions in many different contexts. Many rely upon finding fractions of amounts.

Visual Representations

Younger children will be asked to shade the fraction of a shape where the number of equal parts of the shape is equal to the denominator of the fraction. However at KS2, the number of parts of the shape will be a multiple of the denominator.

Shading $\frac{1}{3}$ of a shape of 12 equal parts can be done by shading every third part,



or by calculating that $\frac{1}{3}$ of 12 = 4, so 4 parts need to be shaded.

