

Knowledge Organiser - Maths

Key Vocabulary:

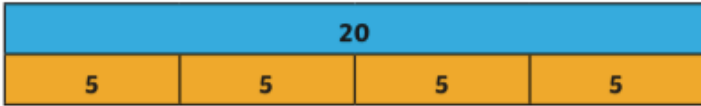
numerator	
denominator	
unit fraction	
non-unit fraction	
equivalent	
quantities	
whole	
halves	
thirds	
quarters	
fifths	
sixths	
sevenths	
eighths	
ninths	
tenths	
elevenths	
twelfths	

Fractions

Fractions of quantities

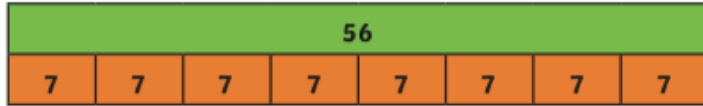
To find a fraction of a number, divide by the denominator and multiply by the numerator.

To find a fraction quarters of 20:



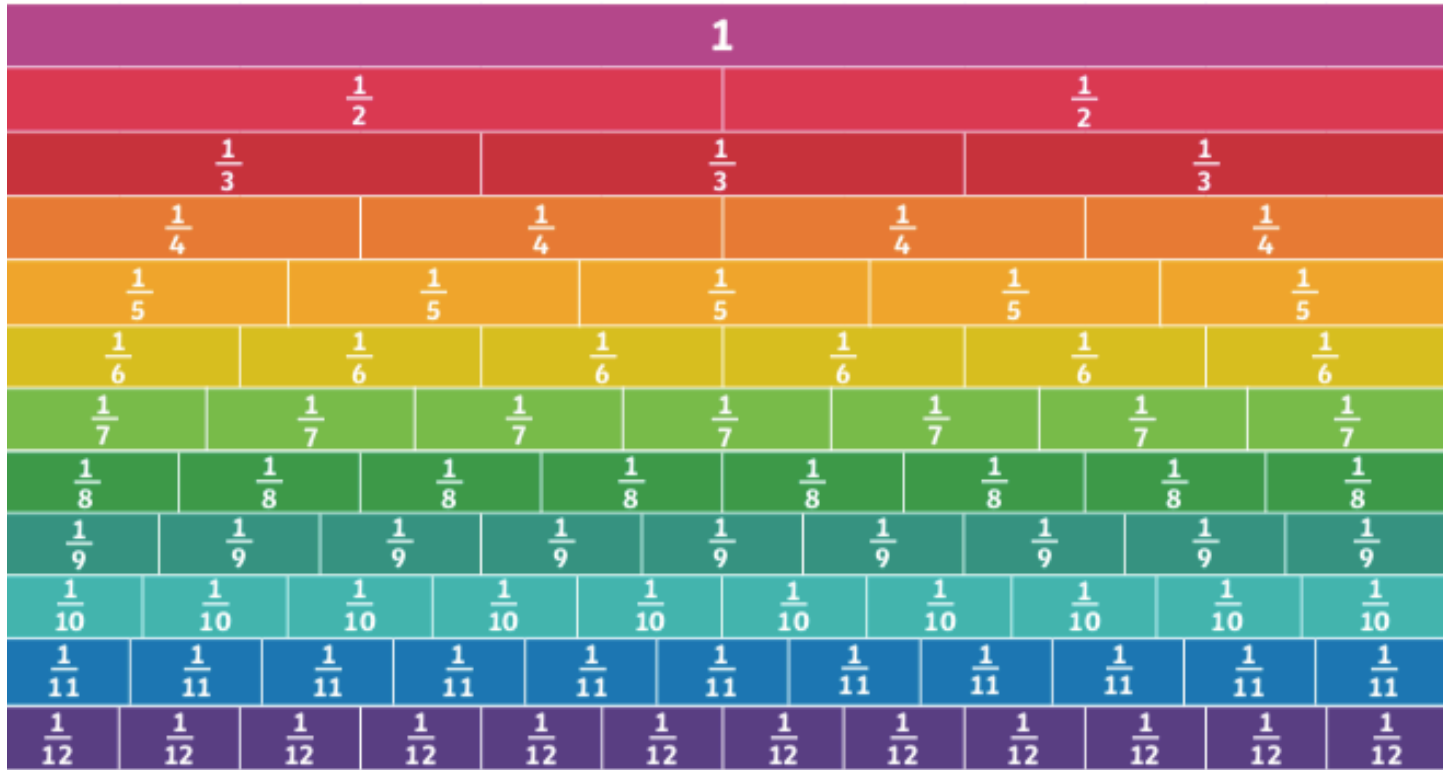
$$\frac{1}{4} \text{ of } 20 = 5 \quad \frac{2}{4} \text{ of } 20 = 10 \quad \frac{3}{4} \text{ of } 20 = 15 \quad \frac{4}{4} \text{ of } 20 = 20$$

To find a fraction eighths of 56:



$$\begin{aligned} \frac{1}{8} \text{ of } 56 = 7 & \quad \frac{2}{8} \text{ of } 56 = 14 & \quad \frac{3}{8} \text{ of } 56 = 21 & \quad \frac{4}{8} \text{ of } 56 = 28 \\ \frac{5}{8} \text{ of } 56 = 35 & \quad \frac{6}{8} \text{ of } 56 = 42 & \quad \frac{7}{8} \text{ of } 56 = 49 & \quad \frac{8}{8} \text{ of } 56 = 56 \end{aligned}$$

Fractions families



Adding fractions

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



$$\frac{2}{8} + \frac{4}{8} + \frac{1}{8} = \frac{7}{8}$$



Subtracting fractions

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



$$\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$$

