

Maths - Year 5

Calculating 14: Calculating fractions of amounts

Key Vocabulary

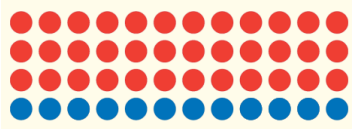
Factor	A number that divides into another number exactly.
Remainder	Something that is left over when other parts have been used.
dividend	The number to be divided.
Divisor	The number you are dividing by.
Quotient	The result of dividing one number by another.
Multiple	The product of two whole numbers larger than one.

Mathematical Skills

- Find one part of a whole number or quantity.
- Find several parts of a whole number or quantity.
- Use multiplying facts to help with dividing.
- Describe part of an array as a fraction of the whole.
- Explain links between finding fractions and dividing.
- Explain remainders in ways consistent with the context of the problem, including as remainders or fractions.

Mathematical Methods

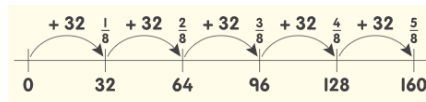
- Finding fractions of an array e.g. that represents $12 \times 4 = 48$.



$\frac{1}{4}$ of the counters are blue so $\frac{1}{4}$ of $48 = 48 \div 4 = 12$.

- Finding fractions of quantities e.g. A balloon seller has 256 balloons to sell. After 1 hour, he has sold $\frac{1}{8}$ of the balloons. How many has he sold?

		3	2	
8)	2	5	6



- Finding fractions of amounts of money.

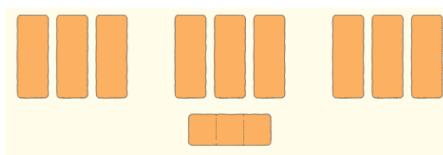
		4	3	9		
6)	2	6	3	5	4

£2634		
$\frac{1}{6}$	$\frac{2}{6}$	$\frac{3}{6}$
£439	£878	£1317

- Finding fractions of lengths e.g. $\frac{3}{5}$ of a 240m long running track.

				4	8
		4	8	x	2
5)	2	4	0	

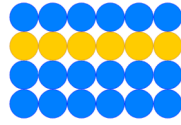
- Finding fractions of amounts where the answer is not a whole number e.g. 3 friends want to share 10 fish fingers equally.



$$10 \div 3 = 3 \text{ r}1 = 3 \frac{1}{3}$$

Can you..?

- What fraction of the array is yellow?



- Calculate $\frac{3}{8}$ of 32.
- $\frac{2}{6}$ of 150 cars are blue. How many cars are blue?
- Find $\frac{1}{3}$ of 4.5 litres.