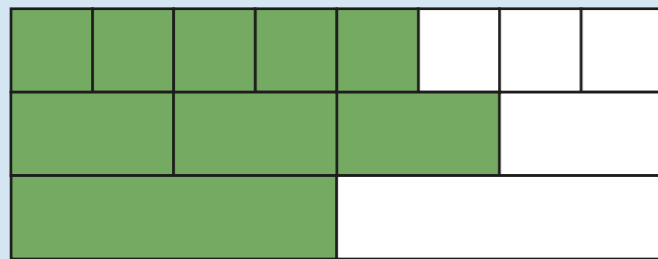


Use equivalence to compare

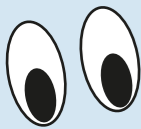
$$\frac{5}{8} \quad \frac{3}{4} \quad \frac{1}{2}$$



$$\frac{3}{4} = \frac{6}{8}$$

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

$$\frac{1}{2} < \frac{3}{4} < \frac{5}{8}$$



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

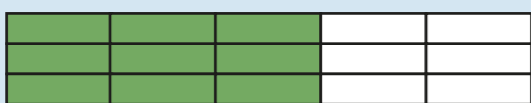


If there are 2 times as many equal parts, then there are 2 times as many shaded parts

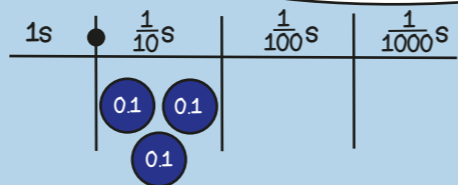
$$\frac{3}{5} = \frac{6}{10}$$



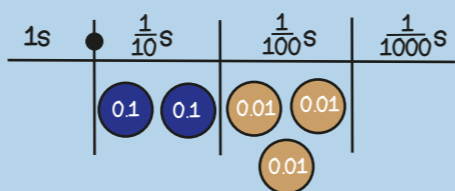
$$\frac{3}{5} = \frac{9}{15}$$



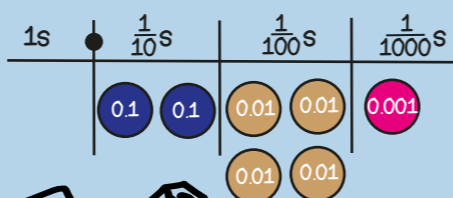
Decimals as fractions



$$0.3 = \frac{3}{10}$$

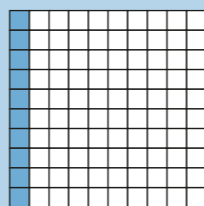


$$0.23 = \frac{23}{100}$$



$$0.241 = \frac{241}{1000}$$

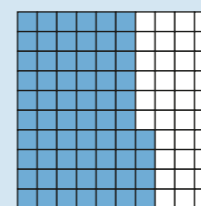
denominator
numerator
equivalence
thousandths
percentage



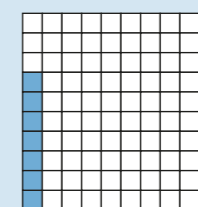
$$\frac{10}{100} = \frac{1}{10}$$

Percentage, decimal, fraction equivalence

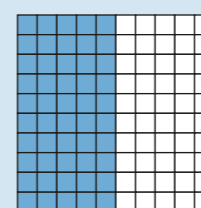
$$\frac{64}{100} = 0.64 = 64\%$$



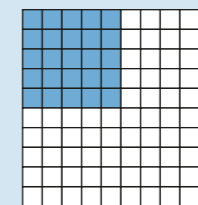
$$\frac{7}{100} = 0.07 = 7\%$$



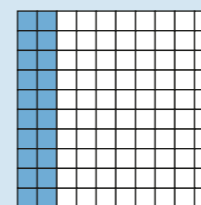
$$\frac{1}{2} = \frac{50}{100} = 0.5 = 50\%$$



$$\frac{1}{4} = \frac{25}{100} = 0.25 = 25\%$$



$$\frac{1}{5} = \frac{20}{100} = 0.2 = 20\%$$



If I know $\frac{1}{5} = 20\%$ then I also know... because...



Year 5 Term 4



Converting units by multiplying and dividing by 10, 100 and 1000

$$13.6 \times 10$$

move digits 1 place left

$$13.6 \times 1000$$

move digits 3 places left

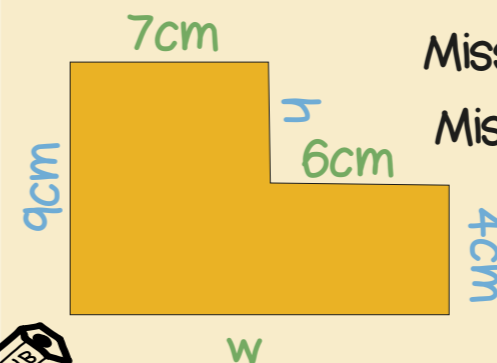
$$13.6 \div 10$$

move digits 1 place right

$$13.6 \div 100$$

move digits 2 places right

imperial
metric
convert
perimeter
rectilinear



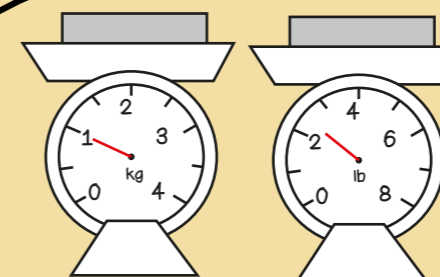
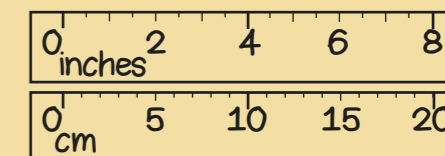
Missing width = $w = 7 + 6 = 13\text{cm}$

Missing height = $h = 9 - 4 = 5\text{cm}$

Perimeter

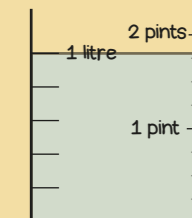
$$= 9 + 7 + h + 6 + 4 + w = 44\text{cm}$$

$$2.5\text{cm} = \text{approximately } 1 \text{ inch}$$



$$1\text{kg} = \text{approximately } 2 \text{ pounds}$$

$$1 \text{ litre} = \text{approximately } 2 \text{ pints}$$



M	HTh	TTh	Th	100s	10s	1s	1/10	1/100	1/1000
					1	3	6		
				1	3	6	←		
		1	3	6	0	0	←		
						1	3	6	
						0	1	3	6

Ten times greater

Ten times smaller

$$1\text{m} = 100 \text{ cm}$$

$$13.6 \times 100 = 1360$$

so $13.6\text{m} = 1360\text{cm}$

$$1\text{km} = 1000 \text{ m}$$

$$13.6 \times 1000 = 13600$$

so $13.6\text{km} = 13,600\text{m}$

$$1\text{l} = 1000 \text{ ml}$$

$$13600 \div 1000 = 13.6$$

so $13,600\text{ml} = 13.6\text{litres}$

$$1\text{cm} = 10 \text{ mm}$$

$$13.6 \times 10 = 136$$

so $13.6\text{cm} = 136\text{mm}$

When converting from a larger unit to a smaller unit, multiply because there will be more of them.

$$1\text{kg} = 1000 \text{ g}$$

$$1360 \div 1000 = 1.36$$

so $1360\text{g} = 1.36\text{kg}$

