MATHS FLUENCY 2 SAMPLE

22. Write 5 divided by 20 as a decimal.

Answer:

$$5 \text{ divided by } 20 = \frac{5}{20} \qquad \text{Write in numerical form}$$

$$= \frac{5 \times 5}{20 \times 5} \qquad \text{Multiply numerator and denominator by 5}$$

$$= \frac{25}{100} \qquad \text{Divide by 100}$$

$$= 0.25 \qquad \text{Simplify}$$

$$\boxed{0.25}$$

23. Jane is 25 cm taller than William. William is 1·28 metres tall. How tall is Jane?

Answer: Let Jane is x metres tall.

$$1 \text{ metre} = 100 \text{ centimetres} \qquad \text{Write conversion}$$

$$1.28 \text{ metres} = 1.28 \times 100 \qquad \text{Simplify}$$

$$1.28 \text{ metres} = 128 \text{ cm}$$

So, William is 128 cm.

$$\text{Jane's height} = \text{William's height} + 25$$

$$\text{Jane's height} = 128 + 25$$

$$\text{Jane's height} = 153 \text{ cm}$$

$$\text{Jane's height} = 1.53 \text{ metres} \qquad \text{Divide by 100}$$

$$\boxed{\text{Jane is 1.53 metres tall}}$$

24. A toy train travels 10 metres in 4 seconds. How far will it go in one minute?

Answer:

$$\text{Distance travelled by toy train} = 10 \text{ metres}$$

$$\text{Time taken to travel 10 metres} = 4 \text{ seconds}$$

$$\text{Speed of toy train is} = \frac{\text{Distance}}{\text{Time}} \qquad \text{Write the formula}$$