

Mathematics

# Finding a percent of a quantity

Mr Kelsall



# New learning: percent

Work out fractions of quantities and record as multiplication calculations. Explain your answers

$$\frac{1}{4} \text{ of } 20$$

$$\frac{3}{4} \text{ of } 20$$

$$\frac{1}{5} \text{ of } 15$$

$$\frac{2}{5} \text{ of } 15$$

$$\frac{1}{10} \text{ of } 20$$

$$\frac{3}{10} \text{ of } 20$$

$$\frac{1}{8} \text{ of } 24$$

$$\frac{7}{8} \text{ of } 24$$

$$\frac{1}{6} \text{ of } 24$$

$$\frac{5}{6} \text{ of } 24$$



# New learning: percent

There are 200 people in a section of a stadium.

10% of them are supporting China

How many people is this?



# New learning: percent

There are 200 people in a section of a stadium.

Can you find 50% ( $\frac{1}{2}$ )?

Can you find 25% ( $\frac{1}{4}$ )?

Can you find 75% ( $\frac{3}{4}$ )?

Can you find 10%

Can you find 20%

Can you find 30%

Can you find 5%

Can you find 15%



# Develop learning: percent

If the whole bead string represents 500

Can you find 50%?

Can you find 25%?

Can you find 75%?

Can you find 10%

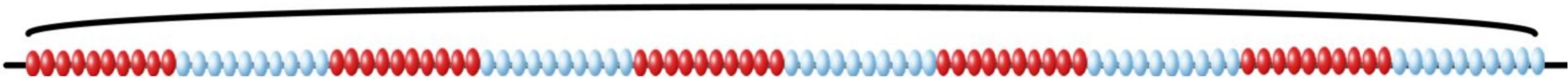
Can you find 20%

Can you find 30%

Can you find 5%

Can you find 15%

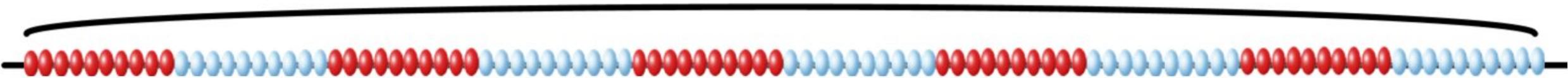
500



# Develop learning: percent

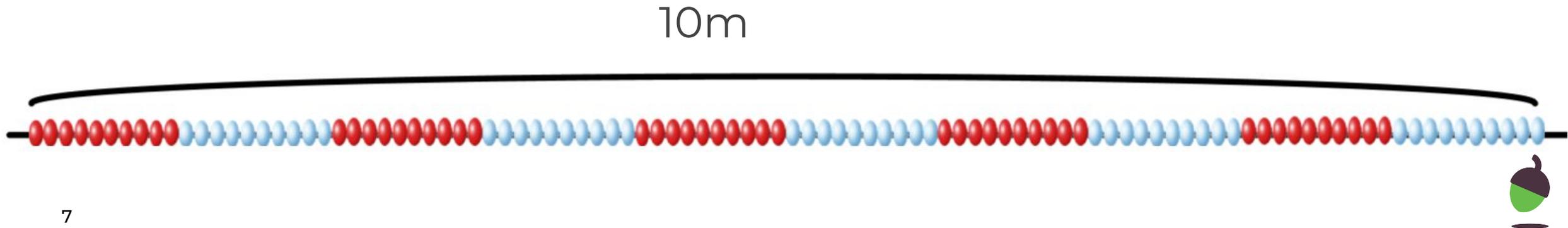
Amanda has a fitness tracking device and she has set a target of running 6 km. The device beeps to let her know she has run 50% of this distance. How far has she run?

6km (or 6000m)



# Develop learning: percent

Johan jumps 70% of the total length of the sand pit. If the pit is 10 m long, how far did he jump?



# Independent task

Draw the bar model and solve these questions

Mohamed is running the 800 m race. He has completed 25% of the total distance.

How far has Mohamed run?

The field at the athletics stadium is 120 m long. Ivan threw the hammer 75% of this distance.

How far did Ivan throw the hammer?



Thomas threw the javelin a distance of 80 m. Jakub threw 80% of this length.

How far did Jakub throw his javelin?



Ellen spends five hours a day training. This is how she divides her time:

40% running, 20% swimming, 20% cycling and the remaining time split equally between stretching and weight training.

How long does she spend on each activity?

