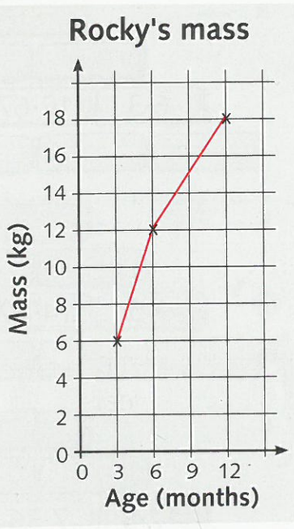
# Growing up line graphs

## Use information presented in a line graph to solve problems

Age

1 The graph shows Rocky the puppy's mass from 3 months to 12 months. What was Rocky's mass in kilograms:

a at 3 months? b at 12 months?




2 How much heavier was Rocky at 6 months than at 3 months?

3 What was the approximate mass of Rocky at 9 months?

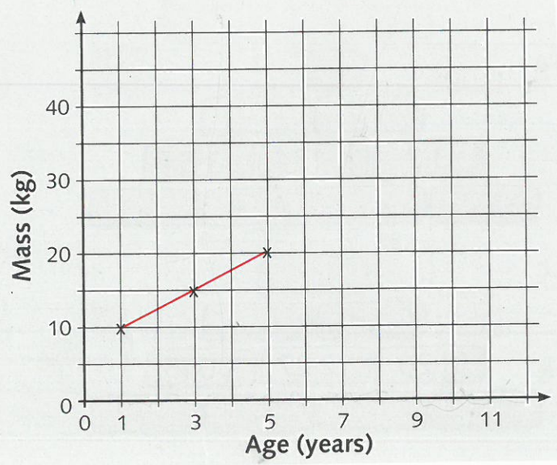
Age

1 The table shows David's mass to the nearest kilogram from the age of 1 to 17.

| Age (years) | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 |
|---|---|---|---|---|---|---|---|---|---|
| Mass (kg) | 12 | 15 | 20 | 25 | 30 | 35 | 50 | 55 | 65 |

**You will need:**
- 1 cm squared paper
- ruler

- Using 1 cm squared paper, copy and complete the line graph to show the information in the table. Your graph should begin as shown.
- Give your graph a title.



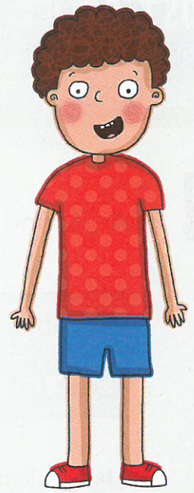



2 Between which ages did David's mass increase most quickly?

3 Use your graph to find David's approximate mass at these ages.

a 16 years b 14 years c 12 years d 10 years

e 8 years f 6 years g 4 years h 2 years



4 What was the difference in David's mass between the ages of:

a 5 and 10 years? b 10 and 15 years?

5 How many more kilograms did David gain between the ages of 10 and 15 years than between the ages of 5 and 10 years?

Challenge 3

1 The graph shows David's height measured in centimetres from the age of 9 to 17. What did David's height measure:

a at age 10?

b at age 14?

2 Between which ages did he gain 7·5 cm in height?

3 About how old was he when he measured 165 cm?

4 Use the information in the graph to write two different statements about David's height.