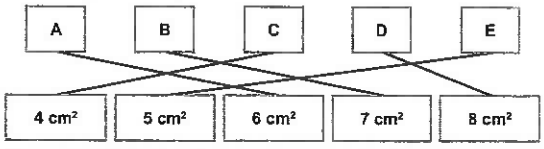
## Pages 29 to 33 — Perimeter and Area

1) 21 cm (**1 mark**)

2) 25 cm² (**1 mark**)

3) 16 cm (**1 mark**)

4) 31 cm (6.2 × 5 = 31 cm)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

5) 

**(2 marks if all the lines are correct, otherwise 1 mark if at least two lines are correct)**

6) 32 cm
(Missing side = 63 ÷ 7 = 9 cm, 7 + 9 + 7 + 9 = 32 cm)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

7) 79 cm²
(8 × 11 = 88 cm², 3 × 3 = 9 cm², 88 – 9 = 79 cm²)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

8) Height: 5 cm, Width: 4 cm (**1 mark**)
Perimeter: 18 cm (**1 mark**)
Area: 20 cm² (**1 mark**)

9) 25 m² (**1 mark**)
41 m² (**1 mark**)

10) 9 cm (**1 mark**)
6 cm (**1 mark**)

# Geometry, Measures & Statistics

11) Perimeter = 54 cm
(Base of T shape = 11 – 3 – 3 = 5 cm,
Perimeter = 11 + 4 + 3 + 12 + 5 + 12 + 3 + 4 = 54 cm)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**
Area = 104 cm²
(E.g. split into two rectangles, one 4 cm × 11 cm and the other 12 cm × 5 cm,
Area = (4 × 11) + (12 × 5) = 44 + 60 = 104 cm²)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

12) 10 000 m²
(200 × 100 = 20 000 m², 20 000 ÷ 2 = 10 000 m²)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

13) 40 cm² **(1 mark)**
($\frac{1}{2}$ × base × height = $\frac{1}{2}$ × 10 × 8 = 40 cm²)

14) E.g. She has used the slant height (5 cm) but she should have used the perpendicular height (4 cm). **(1 mark)**
Correct Area = 24 cm² **(1 mark)**

15) 100 m²
(Area of classroom = 12 × 10 = 120 m²
Area of Reading Corner = $\frac{1}{2}$ × 4 × 10 = 20 m²
So area of Learning Zone = 120 – 20 = 100 m²)
**(2 marks if the answer is correct, otherwise 1 mark for correctly calculating the area of the classroom or the reading zone)**

## Page 34 — Volume

1) 11 cm³ **(1 mark)**

2) 3000 cm³ **(1 mark)**
(5 × 20 × 30 = 3000 cm³)

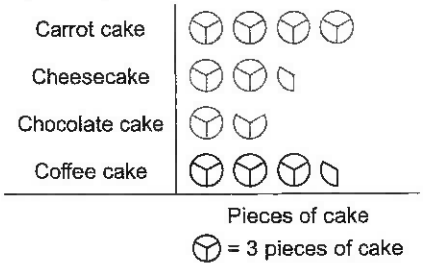
3) 60 m³
(E.g. split into two cuboids, one 4 m × 1 m × 10 m and the other 1 m × 2 m × 10 m,
Volume = (4 × 1 × 10) + (1 × 2 × 10)
= 40 + 20 = 60 m³)
**(2 marks if the answer is correct, otherwise 1 mark for splitting into two cuboids and correctly calculating the volume of one of these cuboids)**

# Section 3 – Statistics

## Pages 35 to 40 — Tables, Charts and Graphs

1) Dogs **(1 mark)**
5 rabbits **(1 mark)**
7 **(1 mark)**

2)




**(1 mark)**

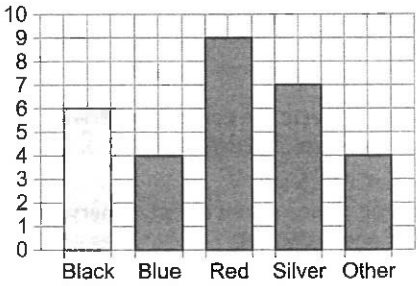
34 pieces **(1 mark)**

3) 17 CDs **(1 mark)**
The box should be ticked for: "He sold the same number of CDs in week 2 and week 8." **(1 mark)**

4)

| Colour | Tally | Frequency |
|---|---|---|
| Black | 𝍸\ | 6 |
| Blue | /𝍸 | 4 |
| Red | 𝍸 𝍸 \|\|\|\| | 9 |
| Silver | 𝍸 \|\| | 7 |
| Other | \\\| | 4 |

**(1 mark)**



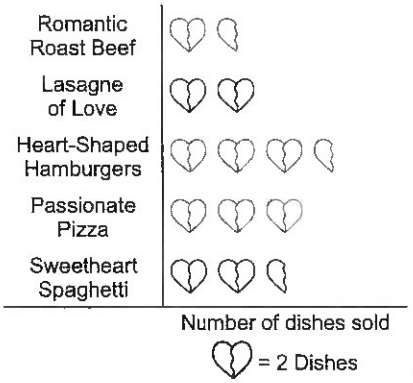

**(2 marks if all the bars are correctly drawn, otherwise 1 mark if two or three bars are correctly drawn — not including 'Black')**

5) 9 metres **(1 mark)**
15 seconds **(1 mark)**
21 metres **(1 mark)**

6)

| Dish | Number sold |
|---|---|
| Romantic Roast Beef | 3 |
| Lasagne of Love | 4 |
| Heart-Shaped Hamburgers | 7 |
| Passionate Pizza | 6 |
| Sweetheart Spaghetti | 5 |

**(1 mark)**

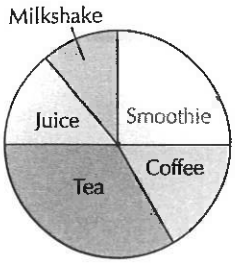



**(1 mark)**

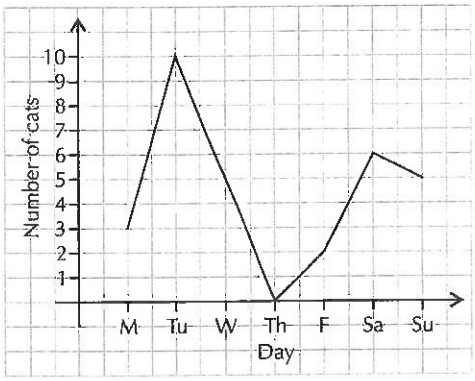
Heart-Shaped Hamburgers **(1 mark)**

7) Emma: 18 DVDs, Sean: 9 DVDs **(1 mark)**
Sean **(1 mark)**

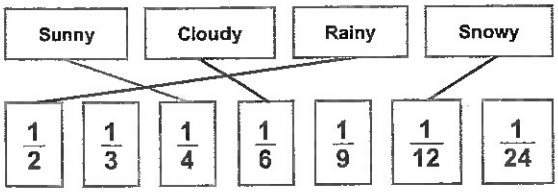
# Geometry, Measures & Statistics

8) 


Smoothie: 90°
Coffee: 60°
Tea: 120°
Juice: 50°
Milkshake: 40°
**(2 marks for a completely correct pie chart. Otherwise 1 mark if one sector has the correct angle and is correctly labelled — not including the 'Smoothie' sector.)**

9) 

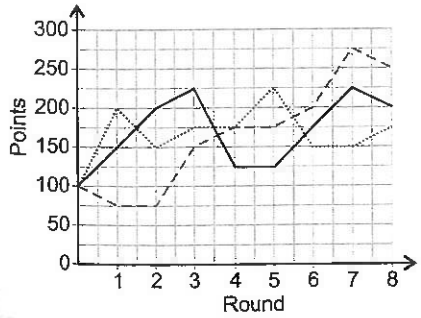

**(2 marks if the line graph is drawn correctly, otherwise 1 mark if at least four points are correctly plotted on suitable axes)**

10) 


**(2 marks if all lines are correct, otherwise 1 mark if at least one line is correct — not including 'Sunny')**

| Weather | Sunny | Cloudy | Rainy | Snowy |
|---|---|---|---|---|
| Number of Days | 6 | 4 | 12 | 2 |

**(2 marks if all entries are correct, otherwise 1 mark if two or three are correct)**

11) 


**(2 marks if the line graph is drawn correctly, otherwise 1 mark if at least 3 points are plotted correctly)**
Ethan **(1 mark)**
625 points **(1 mark)**

## Pages 41 to 43 — Analysing Data

1) 4 **(1 mark)**
$(3 + 4 + 6 + 1 + 3 + 5 + 6 + 4 = 32,\ 32 \div 8 = 4)$

2) 7
$(8 + 6 + 5 + 9 = 28,\ 28 \div 4 = 7)$
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've attempted to find the mean of the correct values from the graph.)**

3) 10 years old
$(8 + 10 + 10 + 10 + 10 + 11 + 11 = 70,\ 70 \div 7 = 10)$
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

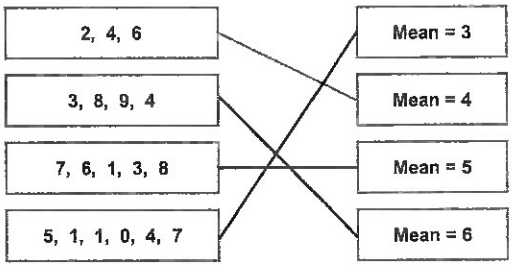
4) 32 characters **(1 mark)**
6 characters **(1 mark)**

5) 24 students **(1 mark)**

| Grade | A | B | C | D | E |
|---|---|---|---|---|---|
| Number of Students | 4 | 8 | 6 | 3 | 3 |

**(2 marks if all entries are correct, otherwise 1 mark if at least one entry is correct — not including A and C)**

6) 3
(There are 8 numbers, so total = $8 \times 5 = 40$
$7 + 4 + 2 + 8 + 3 + 7 + 6 = 37,\ 40 - 37 = 3$)
**(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)**

7) 


**(2 marks if all lines are correct, otherwise 1 mark if at least one line is correct — not including 2, 4, 6)**

8) Film B
(A: $4 + 2 + 3 + 3 + 4 + 0 + 4 + 4 = 24,\ 24 \div 8 = 3$
B: $5 + 4 + 2 + 2 + 3 + 4 + 5 + 5 + 3 + 4 = 37,$
$37 \div 10 = 3.7$)
**(2 marks if the answer is correct with suitable working. 1 mark if the answer is wrong but they've attempted to work out the means of both films separately.)**