

Practice Book *UNIT 11*

Answers

Data Collection and Presentation

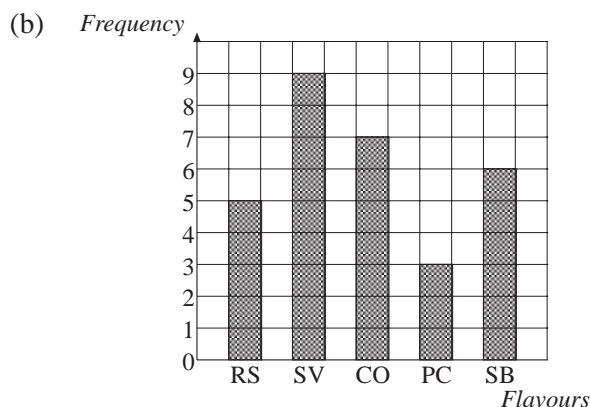
11.1 Types of Data

1. (a) David Darby - Transport to School ; Frederick Franks - Age
(b) Age ; Height (c) Name ; Primary School ; Transport to School ; Glasses
2. (a) (iii) ; (iv) (b) (ii) ; (v) ; (vi) ; (viii) ; (ix) (c) (i) ; (vii) ; (x)
3. (a) Must be whole number (b) Can be any number
(c) Colour ; Trailer / Caravan (d) 33 mph (e) 2 (f) Red
(g) 36 mph (h) L
4. (c) (i) Name ; Favourite Food ; TV Show ; Pop Group
(ii) Time (dependent on the accuracy)
(iii) Age (when given to the nearest year or month, etc.)

11.2 Collecting Data

1. (a)

	<i>Frequency</i>
	5
	9
	7
	3
	6
TOTAL	30



(c) Ready Salted



Salt and Vinegar



Cheese and Onion




Prawn Cocktail



Smokey Bacon



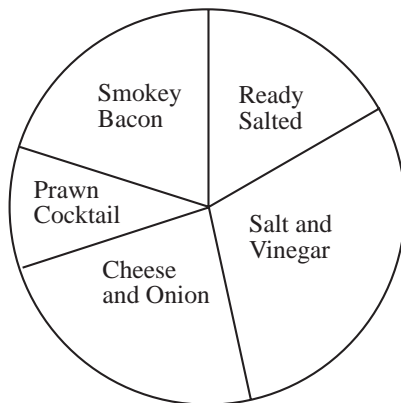
 represents 1 person

11.2

Answers

(d)

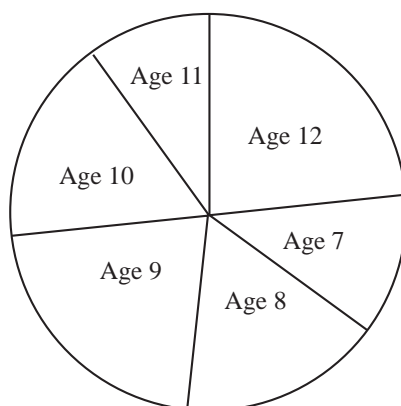
<i>Flavour</i>	<i>Frequency</i>	<i>Calculation</i>	<i>Angle</i>
Ready Salted	5	$\frac{3}{50} \times 360^\circ =$	60°
Salt and Vingar	9	$\frac{9}{30} \times 360^\circ =$	108°
Cheese and Onion	7	$\frac{7}{30} \times 360^\circ =$	84°
Prawn Cocktail	3	$\frac{3}{30} \times 360^\circ =$	36°
Smokey Bacon	6	$\frac{6}{30} \times 360^\circ =$	72°
TOTAL			360°



(e) Salt and Vinegar

6. (a) 12 years

(c)



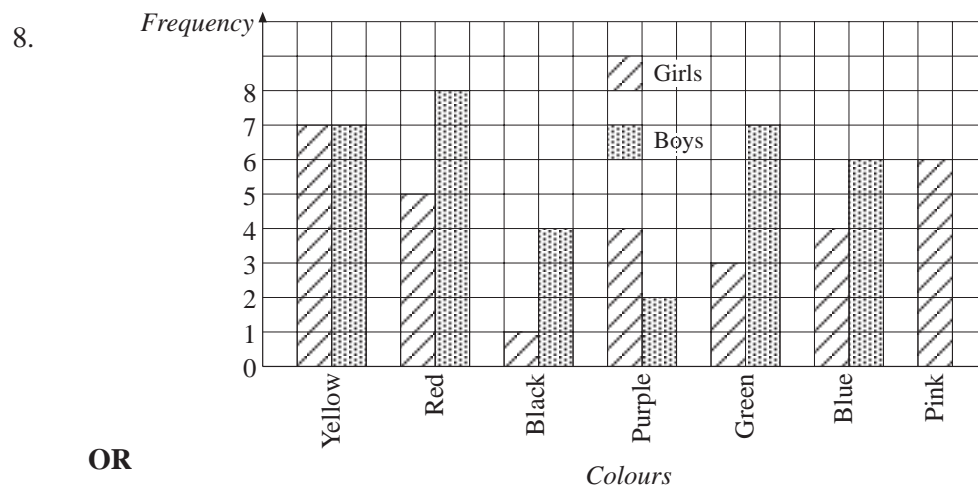
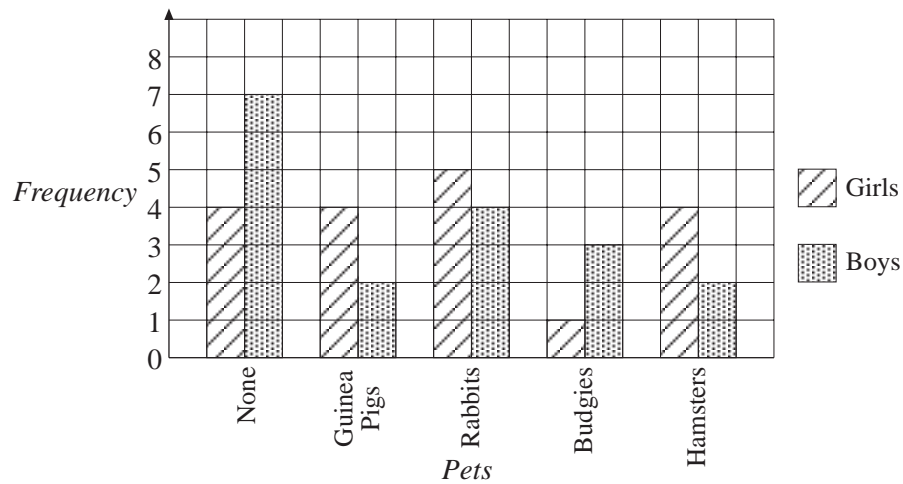
(b)

<i>Age</i>	<i>Calculation</i>	<i>Angle</i>
7	$\frac{7}{60} \times 360^\circ =$	42°
8	$\frac{10}{60} \times 360^\circ =$	60°
9	$\frac{13}{60} \times 360^\circ =$	78°
10	$\frac{10}{60} \times 360^\circ =$	60°
11	$\frac{6}{60} \times 360^\circ =$	36°
12	$\frac{14}{60} \times 360^\circ =$	84°
Total		360°

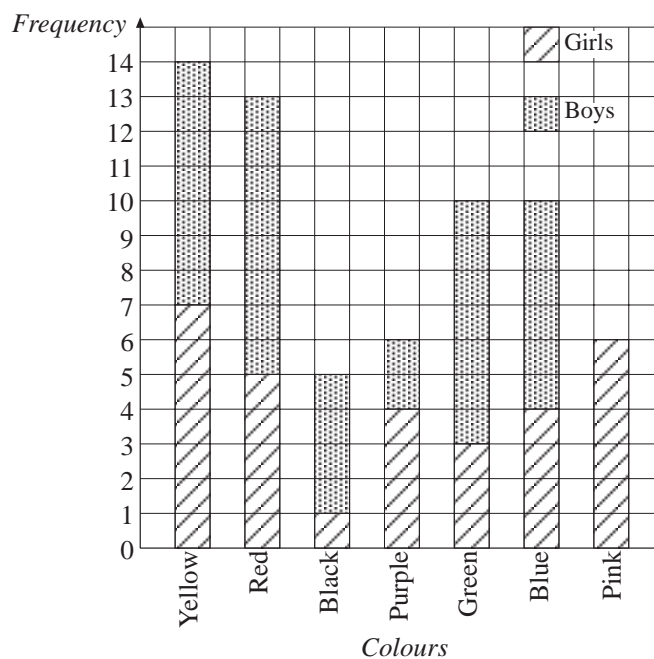
11.2

Answers

7. (a) 4 (b) 6 (c) More popular with girls
 (d) 5 (e) Rabbits (f) Rabbits



OR

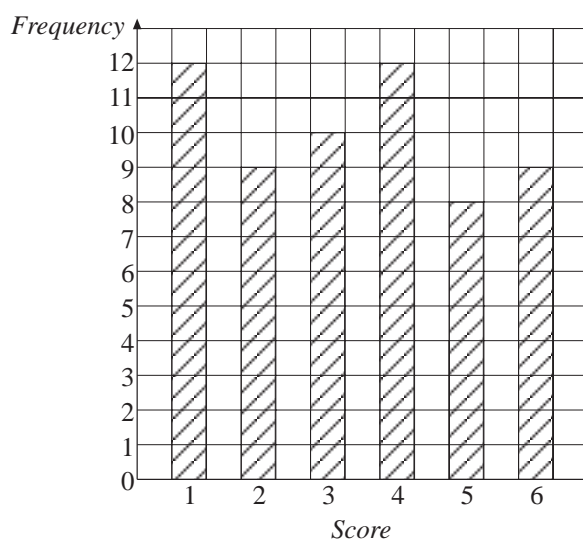


11.2

Answers

9. (a)

<i>Score</i>	<i>Tally</i>	<i>Frequency</i>
1		12
2		9
3		10
4		12
5		8
6		9



We would expect 10 of each score. All frequencies are reasonably close to 10, so we conclude that the dice probably is fair; rolling the dice many more times and recording the results would give a more accurate indication.