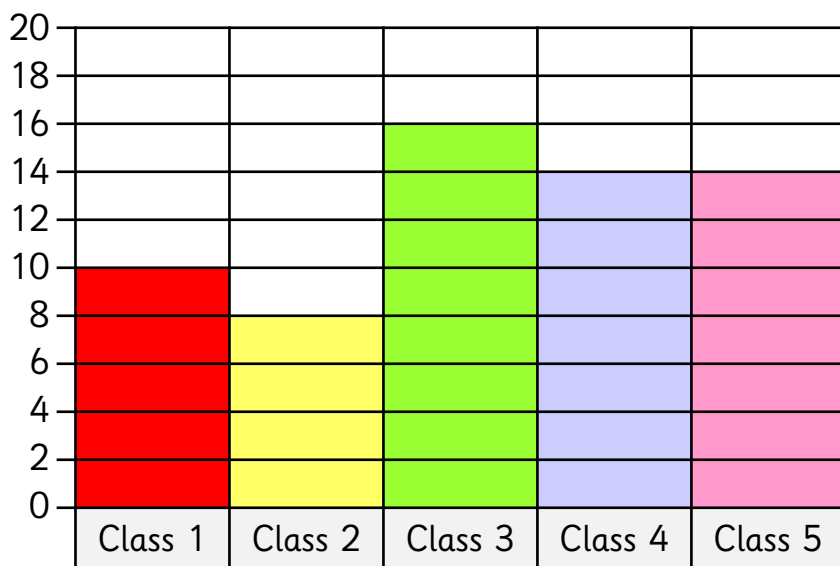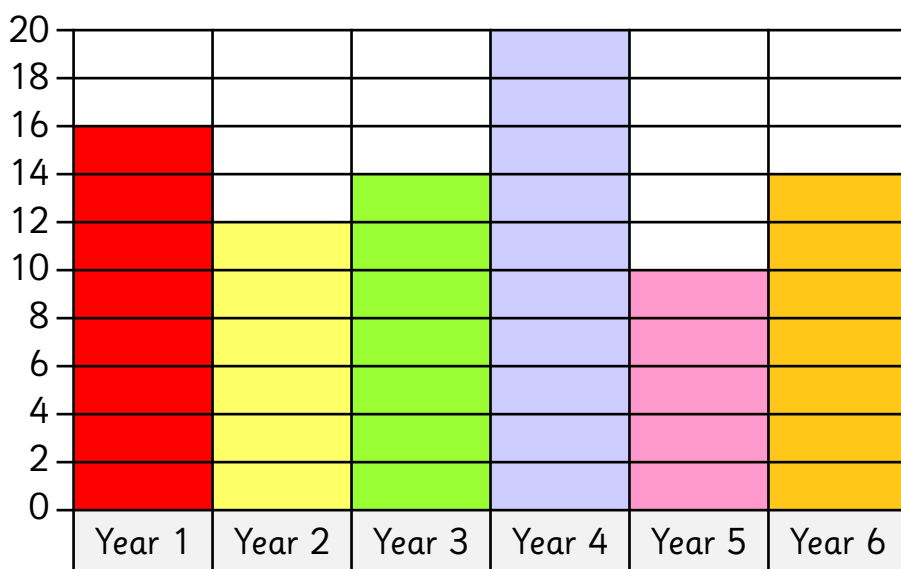# Block diagrams

★ ☆ ☆

1 Sports Day results are shown on the block diagram below.

a) Which class collected the **most** points? _____

b) Which class collected 2 **more** points than Class 2? _____

c) Which class collected 8 **fewer** points than Class 3? _____

d) Which class collected the **fewest** points? _____

2 House points for each year group are shown on the diagram below.

a) Which year group collected the **most** house points? _____

b) Which year group collected 10 **more** house points than Year 5? _____

c) Which year group collected 4 **fewer** house points than Year 4? _____

d) Which year group collected the **fewest** house points? _____

Block diagrams

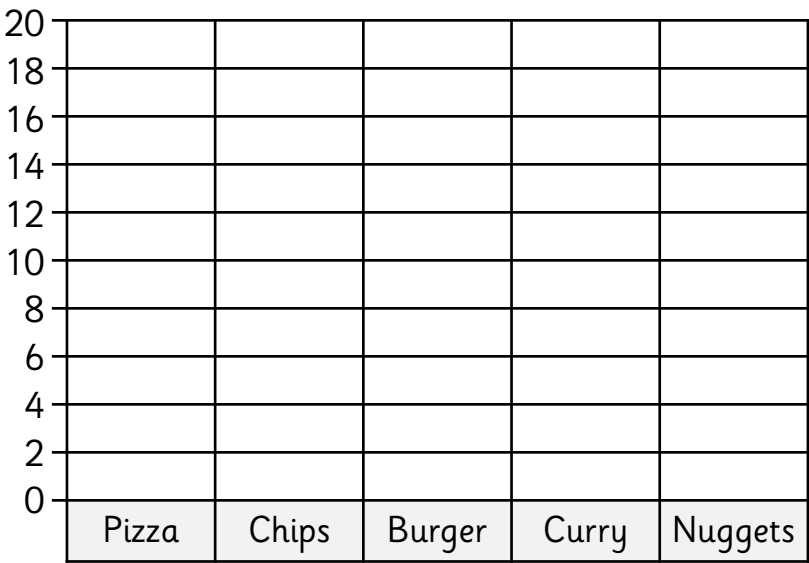Use the tables to complete the block diagrams.

1 Children's favourite colour.

Colour	Number
Red	12
Green	8
Blue	14
Yellow	6
Pink	10

20					
18					
16					
14					
12					
10					
8					
6					
4					
2					
0	Red	Green	Blue	Yellow	Pink

2 Children's favourite food.

Food	Number
Pizza	18
Chips	16
Burger	12
Curry	8
Nuggets	20

20					
18					
16					
14					
12					
10					
8					
6					
4					
2					
0	Pizza	Chips	Burger	Curry	Nuggets

3 Number of pets owned.

Animal	Number
Dog	14
Cat	16
Rabbit	8
Budgie	8
Fish	4

20					
18					
16					
14					
12					
10					
8					
6					
4					
2					
0					
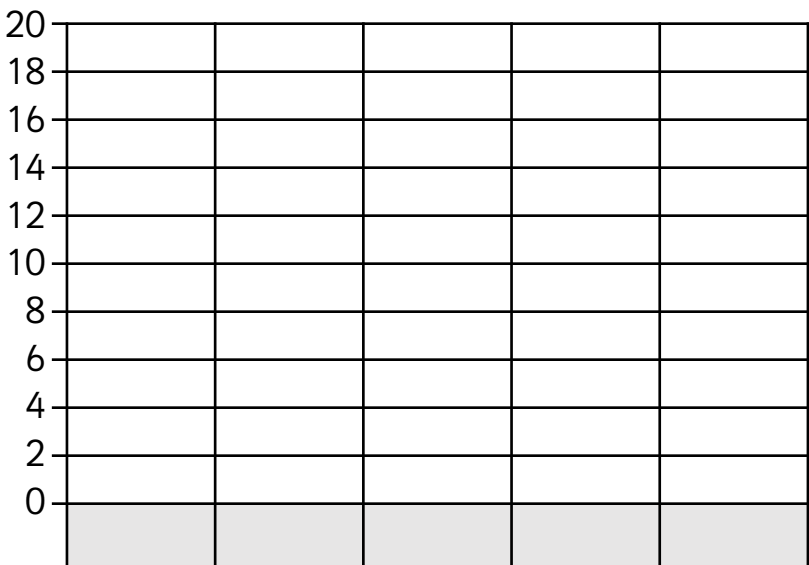
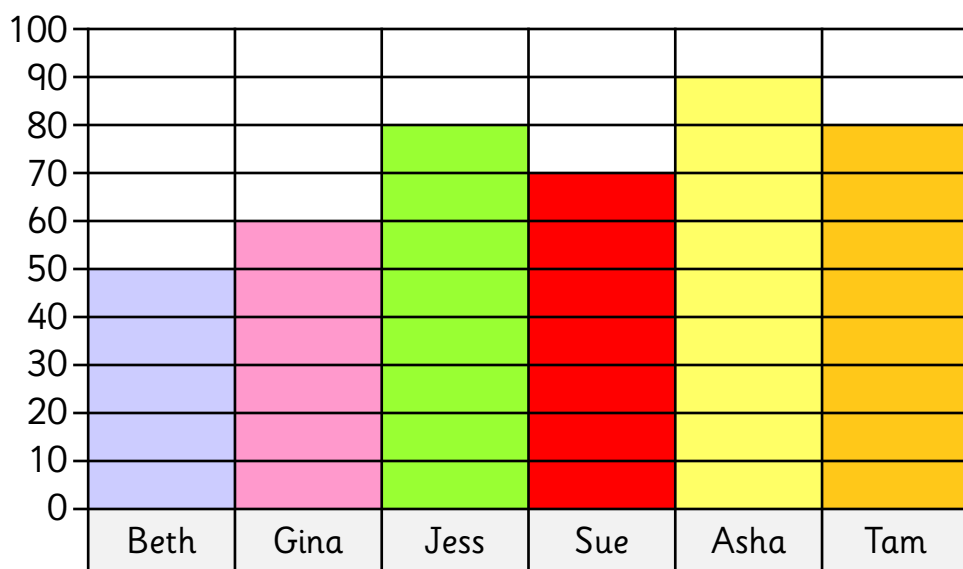# Block diagrams ★★☆

1   The results of a swimming competition are shown on the block diagram below.
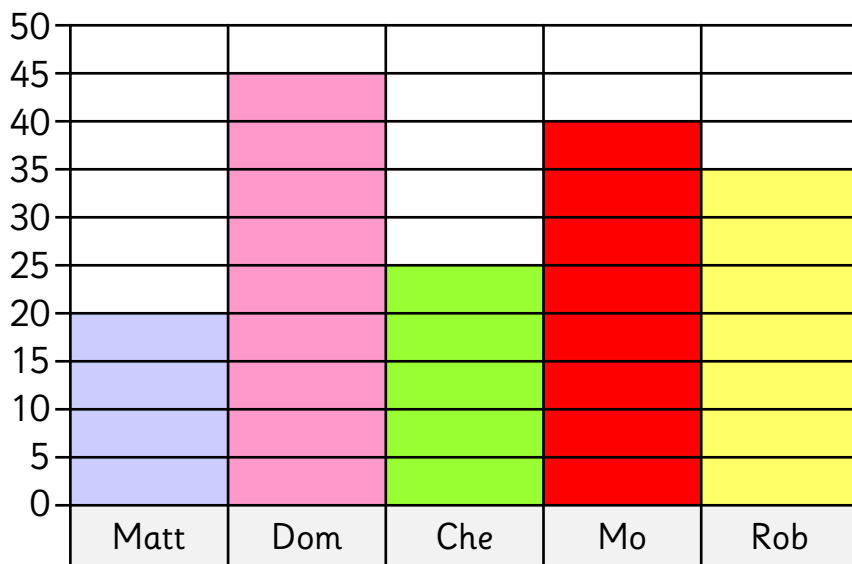
a) How many more points did Rob score than Che?   _____

b) Who collected 5 **more** points than Rob?   _____

c) Who collected 20 **fewer** points than Dom?   _____

d) What is the difference between highest and lowest scores?   _____

2   The results of Sports Day are shown on the block diagram below.

a) How many more point did Tam score than Gina?   _____

b) Who collected 10 **more** points than Beth?   _____

c) Who collected 10 **fewer** points than Jess?   _____

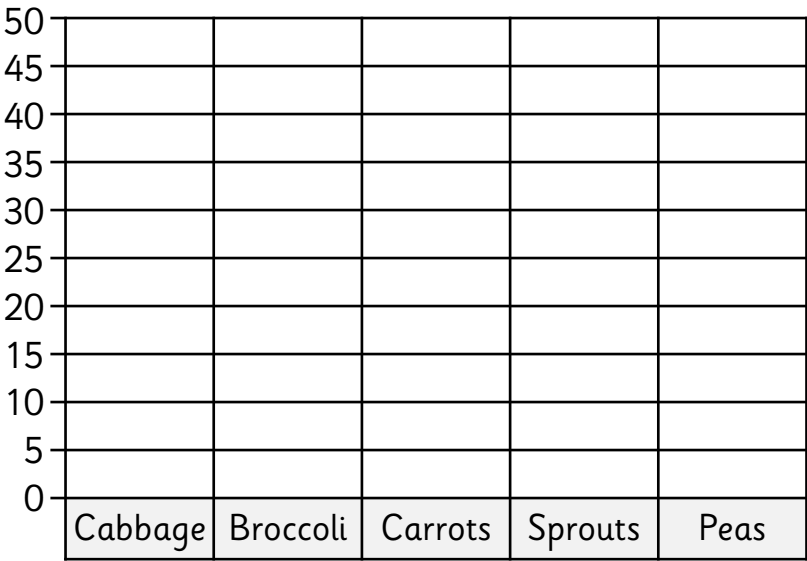d) What is the difference between highest and lowest scores?   _____

Block diagrams

★ ★ ☆
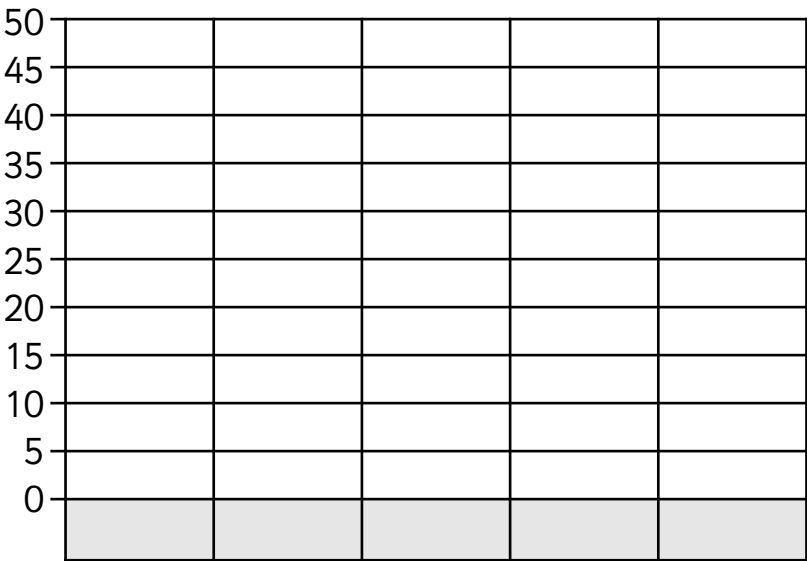
Use the tables to complete the block diagrams.

1. Children's favourite vegetable.

Vegetable	Number
Cabbage	25
Broccoli	20
Carrots	45
Sprouts	10
Peas	30

	Cabbage	Broccoli	Carrots	Sprouts	Peas
50					
45					
40					
35					
30					
25					
20					
15					
10					
5					
0					

2. Children's favourite sport.

Sport	Number
Football	45
Netball	20
Hockey	35
Rugby	20
Tennis	50

3. Children's favourite instrument.

Instrument	Number
Piano	60
Guitar	90
Violin	10
Flute	20
Drums	70
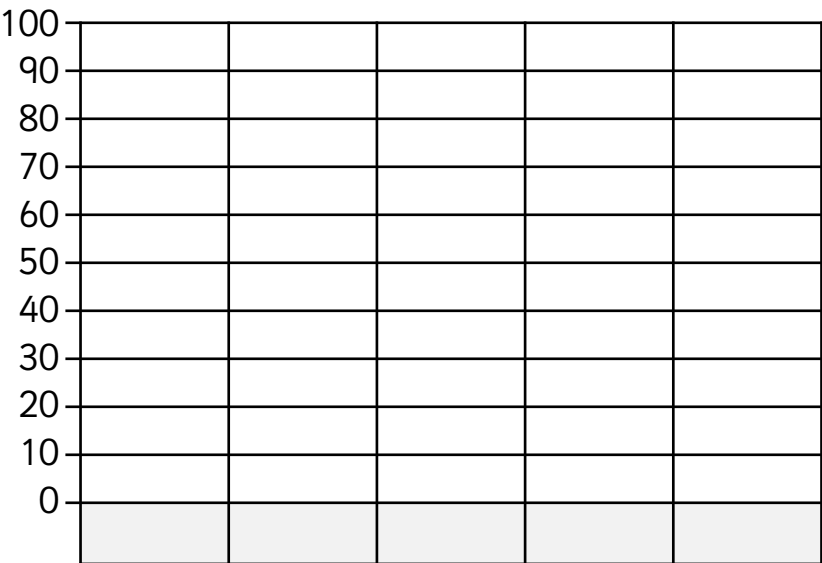
Block diagrams ★ ★ ★
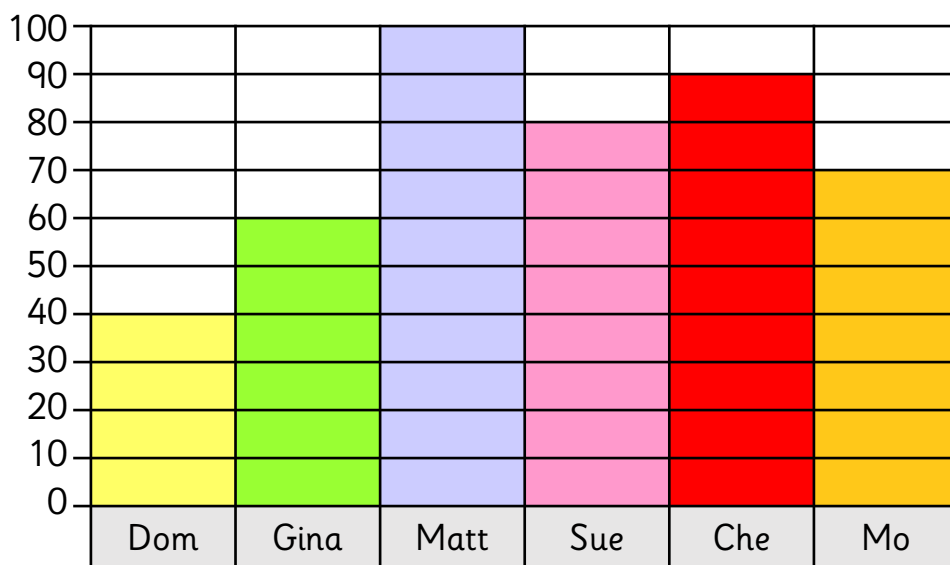
1) The results of a cycling race are shown on the block diagram below.
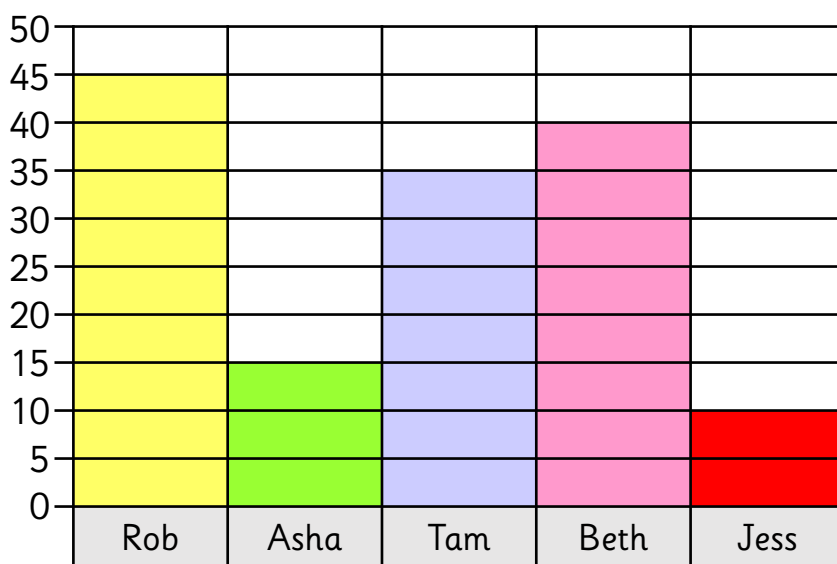
a) How many more points did Rob score than Asha? _____

b) Who collected 20 **more** points than Asha? _____

c) Who collected 25 **fewer** points than Beth? _____

d) What is the difference between highest and lowest scores? _____

2) The results of a charity fun run are shown on the diagram below.

a) Who collected the **most** points? _____

b) Who collected 20 **more** points than Gina? _____

c) What is the difference between highest and lowest scores? _____
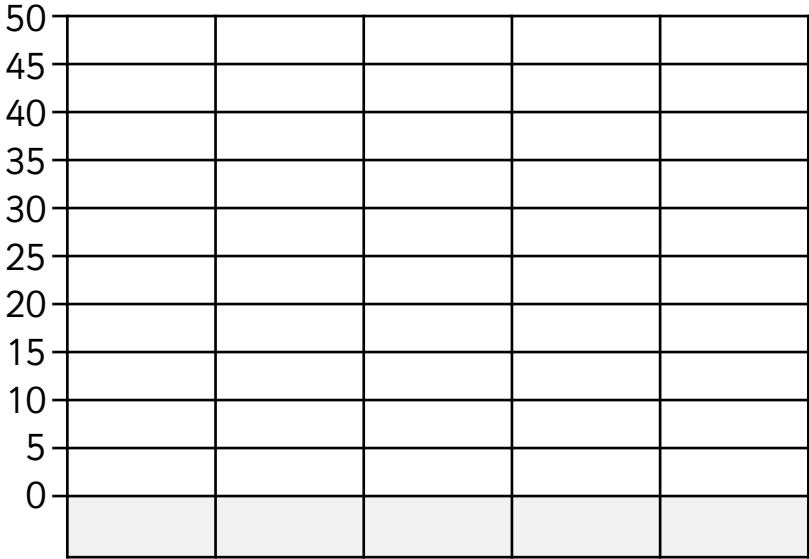
d) Which children had a combined score of 120? _____

Block diagrams ★ ★ ★

Create your own block diagrams to show the results in the table.

1 Children's favourite farm animals.

Farm animal	Number
Pig	25
Chicken	20
Cow	45
Goat	15
Horse	50

2 Favourite holiday destination.

Destination	Number
UK	50
France	60
Spain	80
Greece	40
Turkey	60
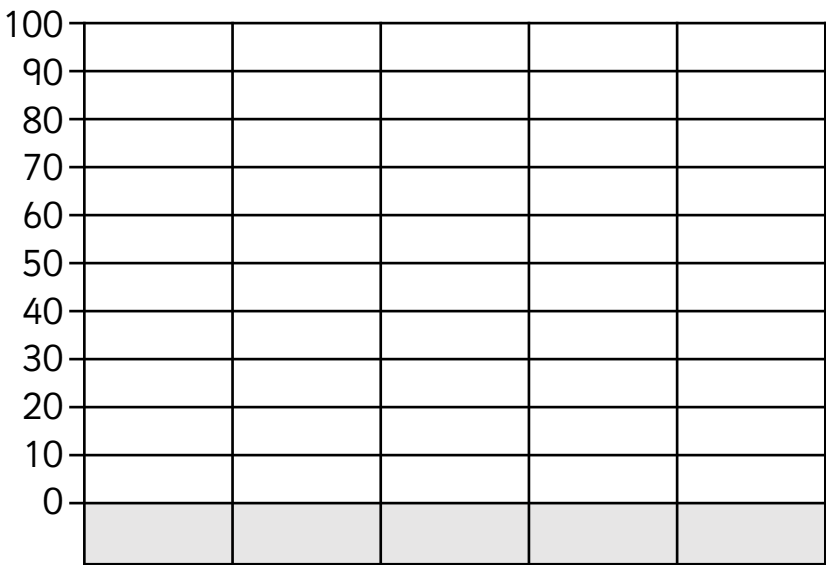
3 Children's favourite subject.

Subject	Number
Art	70
P.E.	90
Literacy	40
Science	30
Maths	20
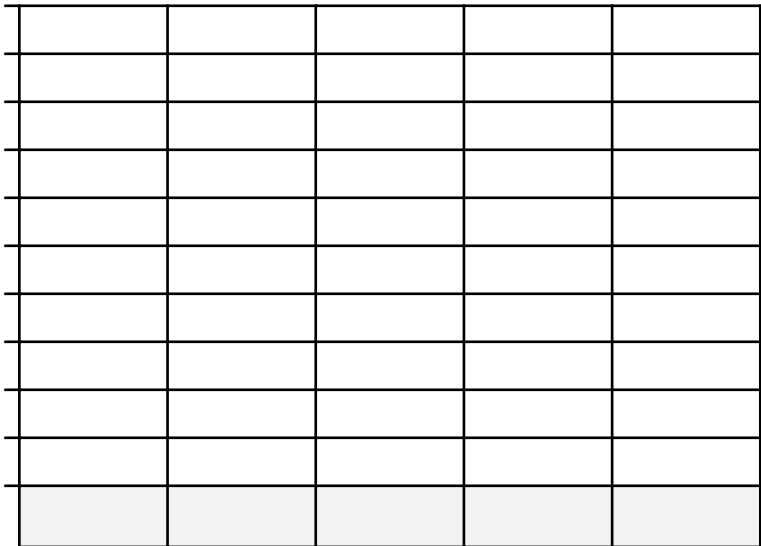
Challenge Cards – Block diagrams

If you add green and yellow together, the total will equal red.

True or false?
Explain how you know.

Give this block diagram a suitable title.

	20				
	18				
	16				
	14				
	12				
	10				
	8				
	6				
	4				
	2				
	0				
	Blue	Green	Red	Pink	Yellow

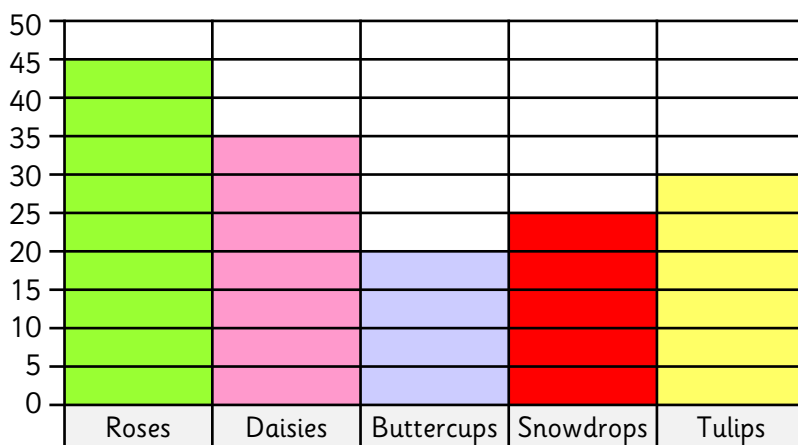
Use the clues to complete the block diagram.

- 30 more people chose mint than coffee.
- 20 fewer people bought strawberry compared to mint.
- Chocolate sold the most with 90, whilst vanilla sold 20 less.

100				
90				
80				
70				
60				
50				
40				
30				
20				
10				
0				
Vanilla	Mint	Chocolate	Strawberry	Coffee

Daisies, buttercups and tulips have a combined total of 80.

Is Kat correct?
Explain how you know.

Create your own questions for a friend.

50				
45				
40				
35				
30				
25				
20				
15				
10				
5				
0				
Roses	Daisies	Buttercups	Snowdrops	Tulips

Spot the mistake. Explain your answer.

Class	Number of children
Year 1	60
Year 2	80
Year 3	50
Year 4	60
Year 5	40

100				
90				
80				
70				
60				
50				
40				
30				
20				
10				
0				
Year 1	Year 2	Year 3	Year 4	Year 5