

Year 2 Statistics

Monday and Tuesday: Lesson 1 and 2 - Pictograms (2, 5 & 10)

Use the tally charts to complete the pictograms.

1 Use the tally charts to complete the pictograms.


a **Key:**  = 2 fruits

| Fruit | Tally | Fruit | |
|--------|-------|--------|--|
| Apple | | Apple | |
| Orange | | Orange | |
| Grapes | | Grapes | |
| Banana | | Banana | |

b **Key:**  = 5 birds


| Birds | Tally | Birds | |
|----------|-------|----------|--|
| Robin | | Robin | |
| Starling | | Starling | |
| Finch | | Finch | |
| Wren | | Wren | |

c Number of animals seen at the zoo.

KEY:  = 2 animals

| | | | |
|----------|--|----------|--|
| Tiger | | Tiger | |
| Elephant | | Elephant | |
| Lion | | Lion | |
| Rhino | | Rhino | |
| Giraffe | | Giraffe | |


d Number of books read in each class.

KEY:  = 2 books

| | | | |
|---------|--|---------|--|
| Class 1 | | Class 1 | |
| Class 2 | | Class 2 | |
| Class 3 | | Class 3 | |
| Class 4 | | Class 4 | |
| Class 5 | | Class 5 | |


Challenge questions:

c Number of animals seen at the farm.

KEY:  = 5 animals

| | | | |
|---------|--|---------|--|
| Cow | | Cow | |
| Sheep | | Sheep | |
| Chicken | | Chicken | |
| Horse | | Horse | |
| Goat | | Goat | |


d Number of photographs taken each week day.

KEY:  = 10 photographs


| | | | |
|---------|--|---------|--|
| Class 1 | | Class 1 | |
| Class 2 | | Class 2 | |
| Class 3 | | Class 3 | |
| Class 4 | | Class 4 | |
| Class 5 | | Class 5 | |

c **Key:**  = 5 trees


| Trees | Tally | Trees | |
|-------|-------|-------|--|
| Oak | | Oak | |
| Elm | | Elm | |
| Ash | | Ash | |
| Birch | | Birch | |

d **Key:**  = 10 flowers

| Flower | Tally | Flower | |
|----------|-------|----------|--|
| Rose | | Rose | |
| Snowdrop | | Snowdrop | |
| Tulip | | Tulip | |
| Daisies | | Daisies | |

c **Key:**  = 5 trees

| Trees | Tally | Trees | |
|-------|-------|-------|--|
| Oak | | Oak | |
| Elm | | Elm | |
| Ash | | Ash | |
| Birch | | Birch | |

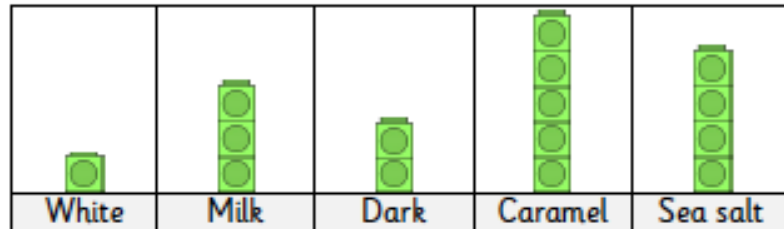
d **Key:**  = 10 flowers

| Flower | Tally | Flower | |
|----------|-------|----------|--|
| Rose | | Rose | |
| Snowdrop | | Snowdrop | |
| Tulip | | Tulip | |
| Daisies | | Daisies | |

Wednesday: Lesson 3 - Interpret Pictograms

Answer the questions about the pictograms below.

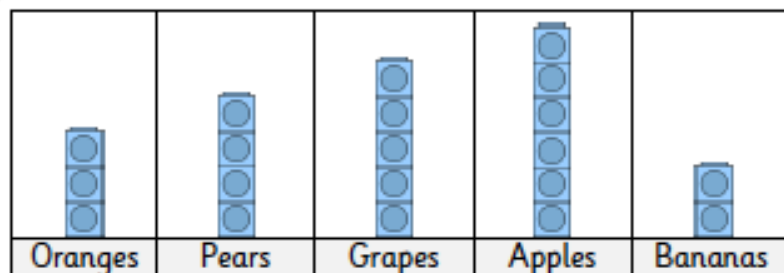
a Chocolate bars sold in one day.




KEY:  = 2 bars.

- a) How many **more** milk chocolate than white chocolate? _____
- b) Find the difference between caramel and dark chocolate. _____
- c) How many milk and dark chocolate in total? _____

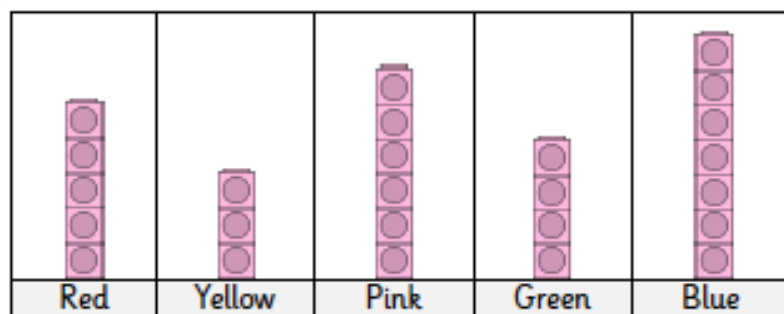
b Fruit sold at the market.



KEY:  = 2 pieces.

- a) How many **more** grapes than pears? _____
- b) Find the difference between apples and bananas. _____
- c) How many oranges and bananas in total? _____

c Favourite colours.



KEY:  = 2 people.

- a) How many **more** blue than red? _____
- b) Find the difference between pink and yellow. _____
- c) How many yellow and red in total? _____

a

| Toppings | |
|-----------|---------------------|
| Cheese | ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ |
| Pepperoni | ★ ★ ★ ★ ★ ★ ★ |
| Pineapple | ★ ★ ★ |
| Ham | ★ ★ ★ ★ |

KEY: ★ = 2

a) How many pepperoni and ham altogether? _____

b) How many **more** prefer cheese than pineapple? _____c) How many **fewer** prefer ham than pepperoni? _____

b

| Biscuits | |
|------------|-------------------|
| Chocolate | □ □ □ □ □ □ □ □ □ |
| Shortbread | □ □ □ □ □ □ |
| Ginger | □ □ □ |
| Wafer | □ □ □ □ □ □ |

KEY: □ = 2

a) How many shortbread and ginger biscuits altogether? _____

b) How many **more** wafer than ginger biscuits? _____c) How many **fewer** shortbread than chocolate biscuits? _____

c

| Animals | |
|---------|---------------------|
| Cow | ▲ ▲ ▲ ▲ ▲ ▲ |
| Pig | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |
| Chicken | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |
| Horse | ▲ ▲ ▲ ▲ ▲ ▲ |
























KEY: ▲ = 2

a) How many horses and cows altogether? _____

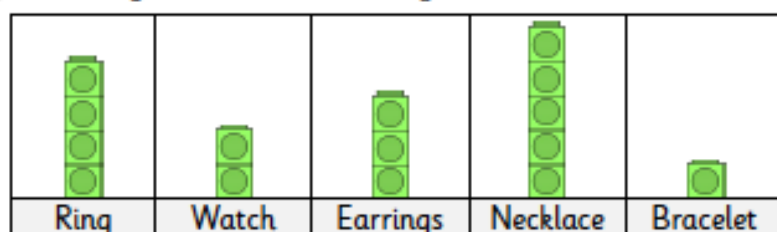
b) How many **more** pigs than cows are there? _____c) How many **fewer** horses than chickens? _____

Challenge questions

a

| Sport | |
|---------|--|
| Cycling |                        |

a Jewellery items sold in one day.



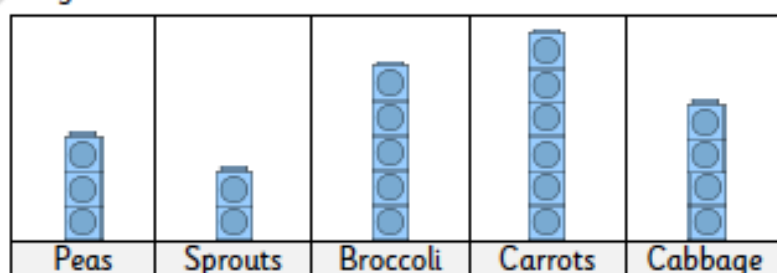
KEY:  = 2 items.


a) Find the difference between watches and the necklaces. _____

b) How many **more** rings than bracelets? _____

c) What is the total number of jewellery items sold? _____

b Vegetables sold at the market.



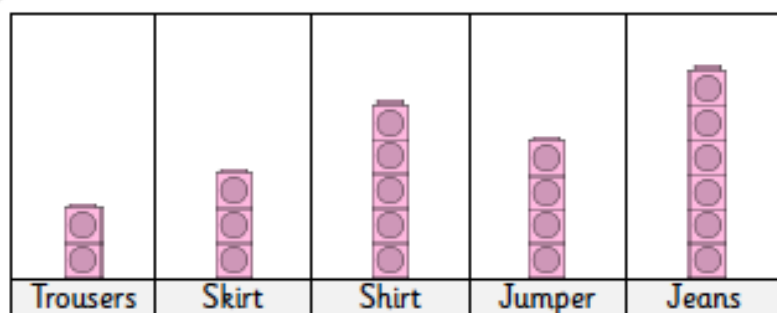
KEY:  = 5 vegetables.


a) How many **more** carrots than cabbage? _____

b) Find the difference between peas and carrots. _____

c) How many peas and broccoli in total? _____

c Clothes sales in one week.



KEY:  = 10 items.

a) How many **more** jeans than skirts? _____

b) Find the difference between trousers and jumpers. _____

c) How many skirts, jumpers and jeans in total? _____

Extra Challenge!

Can you complete the challenge cards? Remember to use **because** in your sentences to explain **how** you know.

Rob completed a survey to see how many times equipment was used in the park.

| | |
|----------------|---------------------|
| Swing | ▲ ▲ ▲ |
| Roundabout | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |
| Slide | ▲ ▲ ▲ ▲ |
| Climbing Frame | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |

KEY: ▲ = 10



If I add the number of swings and slides together it will be equal to the climbing frame.

Is Rob correct?

Explain how you know.

Tam completed a survey to see how many trees there were in the local park.

| | |
|-------|-----------------|
| Birch | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |
| Ash | ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ |
| Oak | ▲ ▲ |
| Elm | ▲ ▲ ▲ |

KEY: ▲ = 10

To find the total number of trees, I need to add all the images up.
There are 20 trees in total.



Is Tam correct?

Explain how you know.

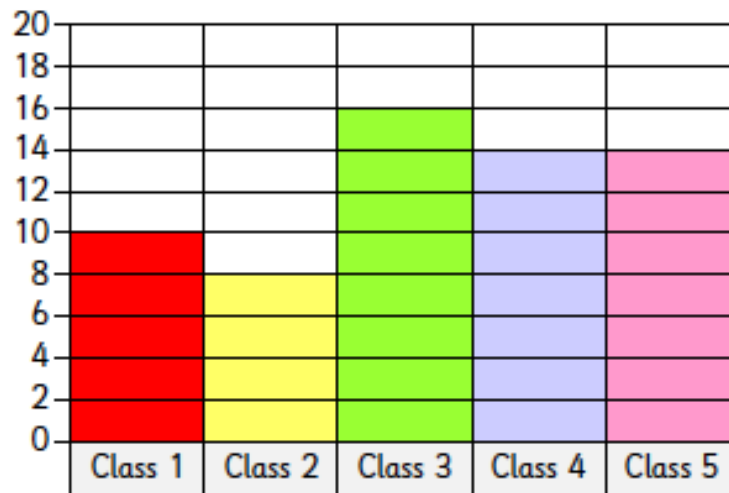
If not, what should the answer be?

Thursday: Lesson 4 Block Diagrams

These questions are in a series of 1 star, to 3 star and increase in difficulty. You only need to complete **one** set of questions.



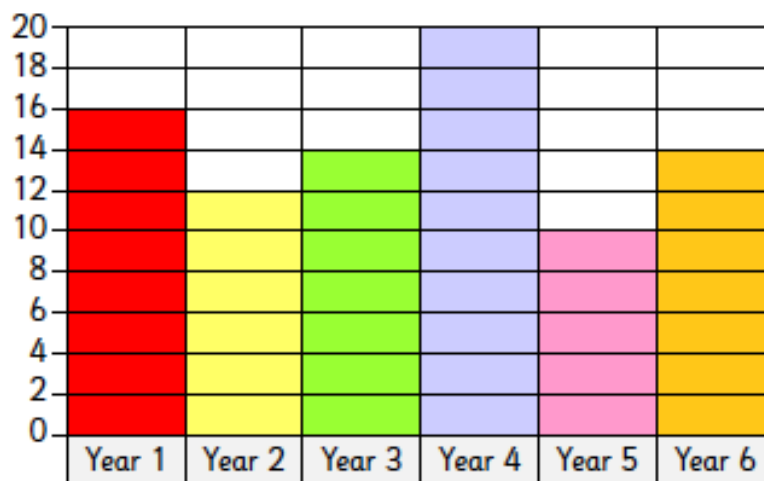
- 1 Sports Day results are shown on the block diagram below.



- 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.

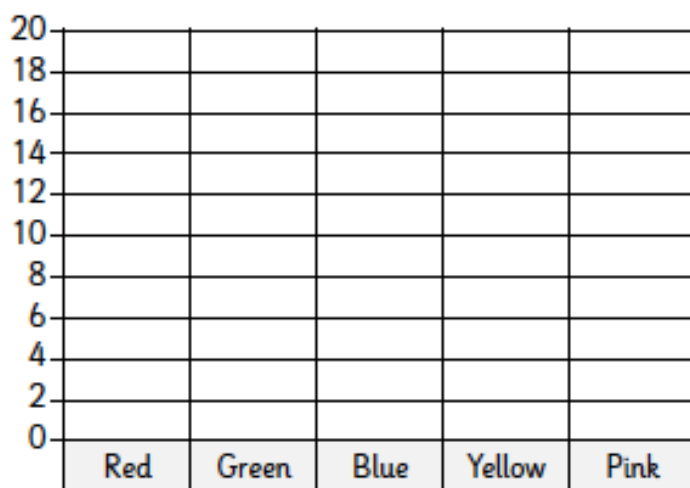


- a) Which year group collected the **most** house points? _____
- b) Which year group collected 10 **more** house points than Year 5? _____
- c) Which year group collected 4 **fewer** house points than Year 4? _____
- d) Which year group collected the **fewest** house points? _____



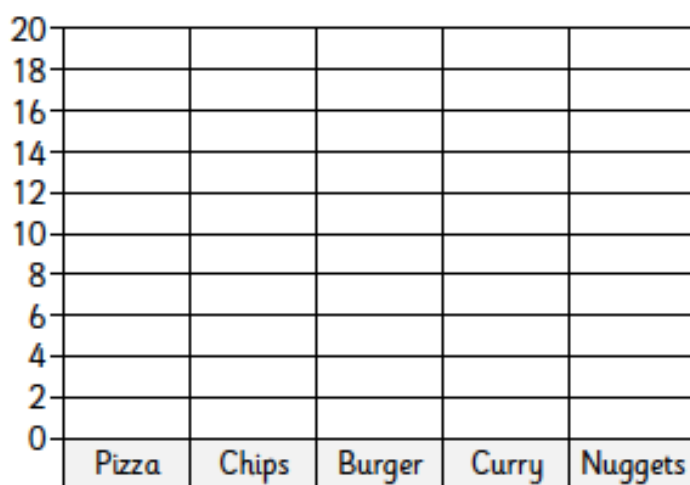
1 Children's favourite colour.

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



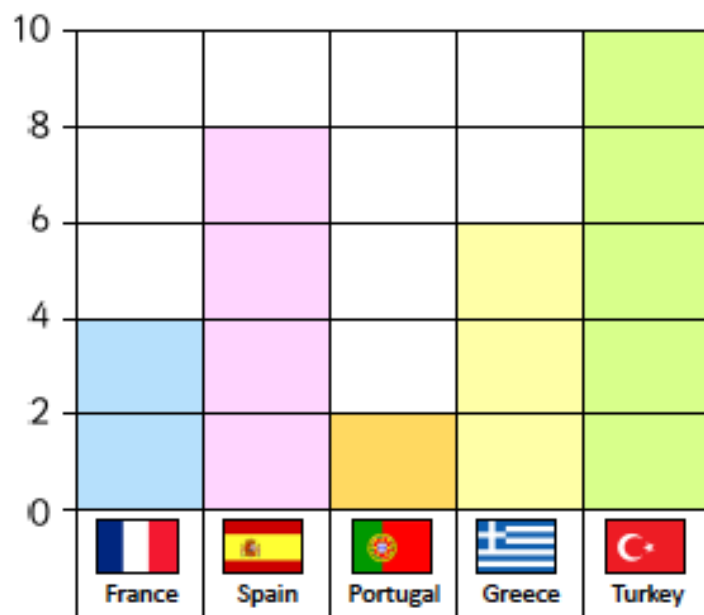
2 Children's favourite food.

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





The block diagram shows the countries that people have visited on holiday last year.



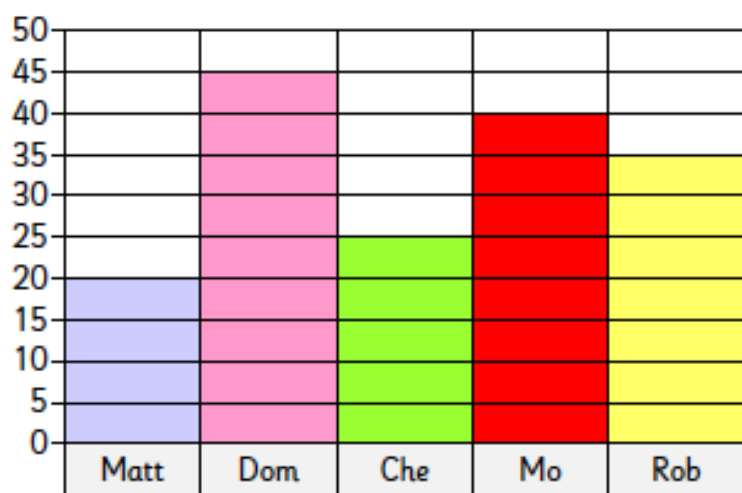
Use the block diagram to answer the questions.

1. Which country was the **most** popular holiday destination?
2. Which country was the **least** popular holiday destination?
3. How many **more** people went on holiday to Spain than Portugal?
4. How many **fewer** people went on holiday to Greece than Turkey?
5. How many people voted in total?
6. Order the countries visited from **most** to **least** popular:



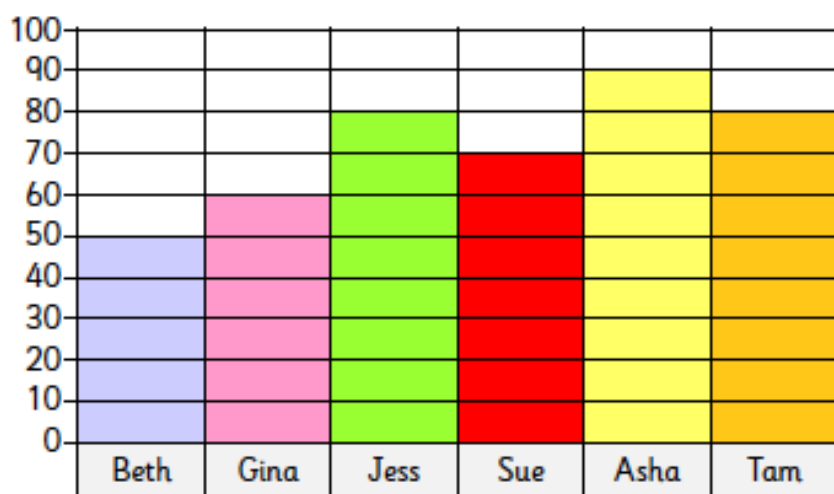


- 1 The results of a swimming competition are shown on the block diagram below.



- How many more points did Rob score than Che? _____
- Who collected 5 **more** points than Rob? _____
- Who collected 20 **fewer** points than Dom? _____
- What is the difference between highest and lowest scores? _____

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

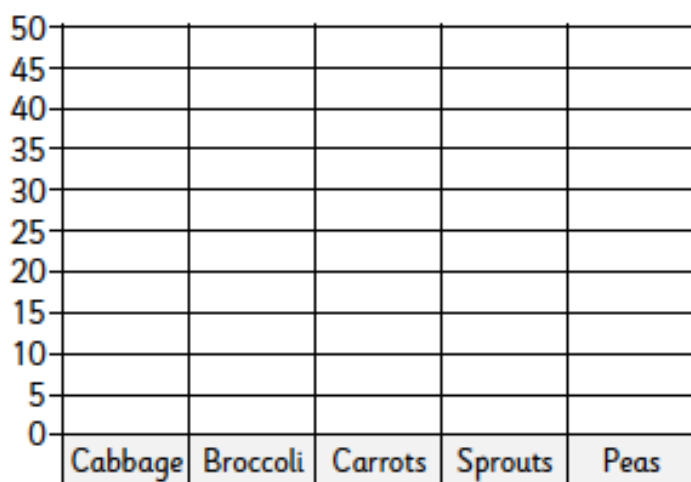


- How many more point did Tam score than Gina? _____
- Who collected 10 **more** points than Beth? _____
- Who collected 10 **fewer** points than Jess? _____
- What is the difference between highest and lowest scores? _____



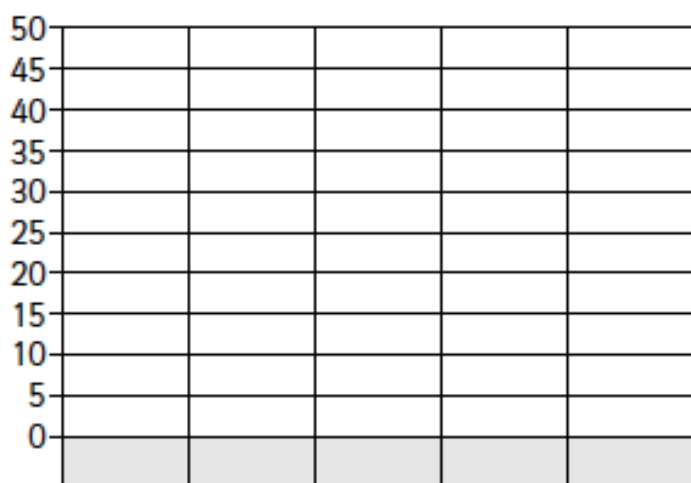
1 Children's favourite vegetable.

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



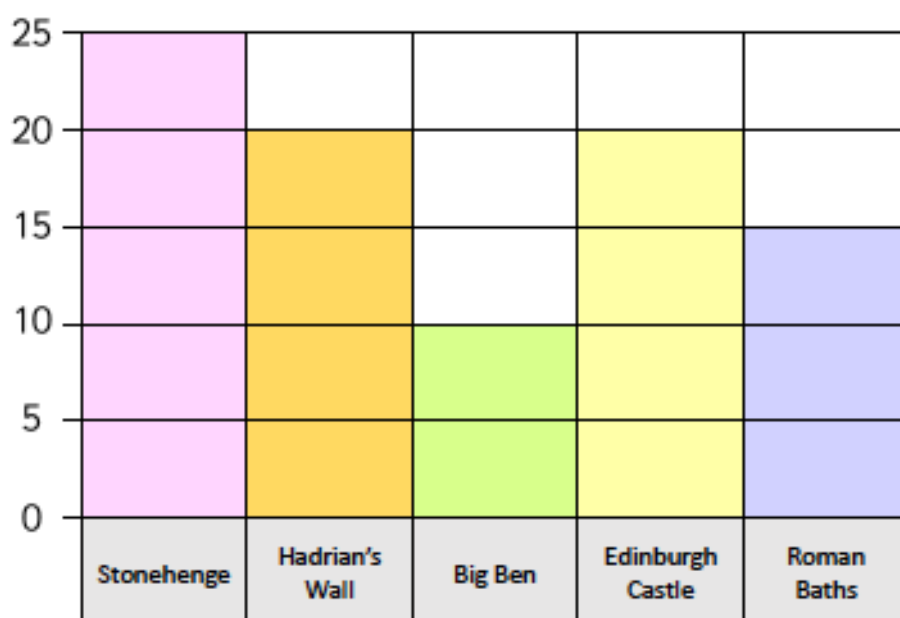
2 Children's favourite sport.

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





The block diagram shows the most popular UK landmarks that people have visited in the past year.



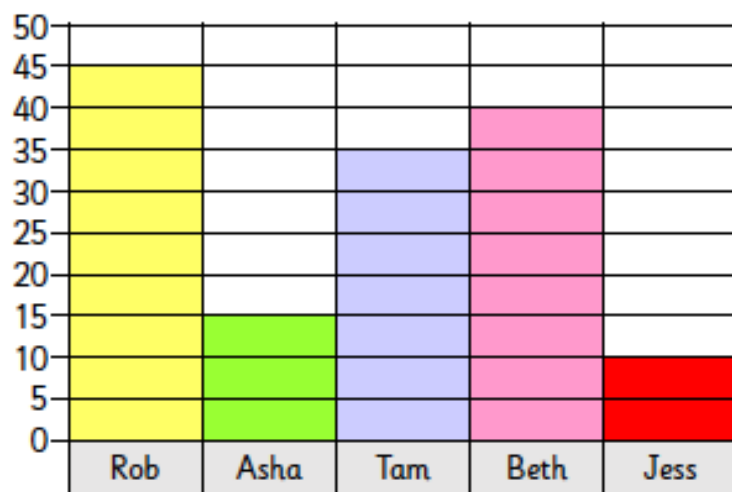
Use the block diagram to answer the questions below.

- Which landmark was the **most** visited? _____
- Which landmark was the **least** visited? _____
- How many **more** people visited Edinburgh Castle than Big Ben? _____
- How many **fewer** people visited the Roman Baths than Hadrian's Wall? _____
- How many people voted in total? _____
- Order the landmarks visited from **most** to **least** popular: _____





- 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.

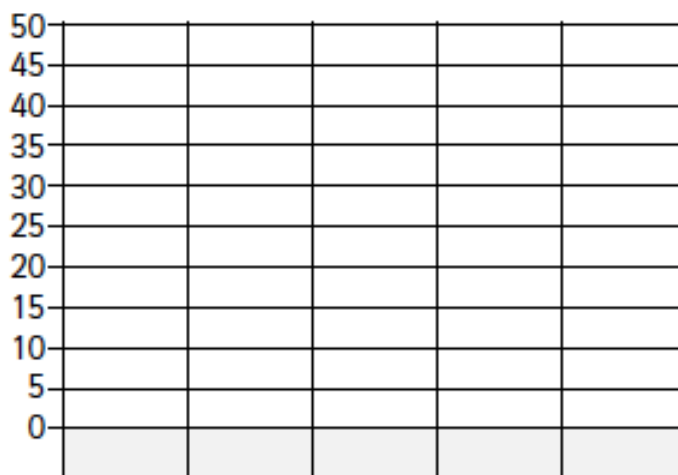


- a) Who collected the **most** points? _____
- b) Who collected 20 **more** points than Gina? _____
- c) What is the difference between highest and lowest scores? _____
- d) Which children had a combined score of 120? _____



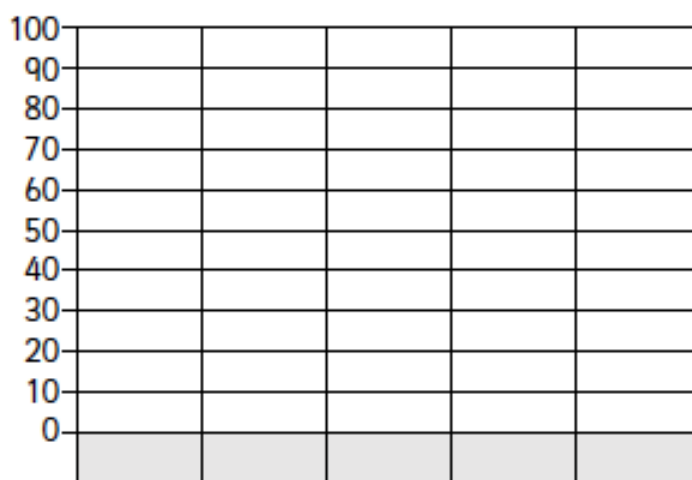
1 Children's favourite farm animals.

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



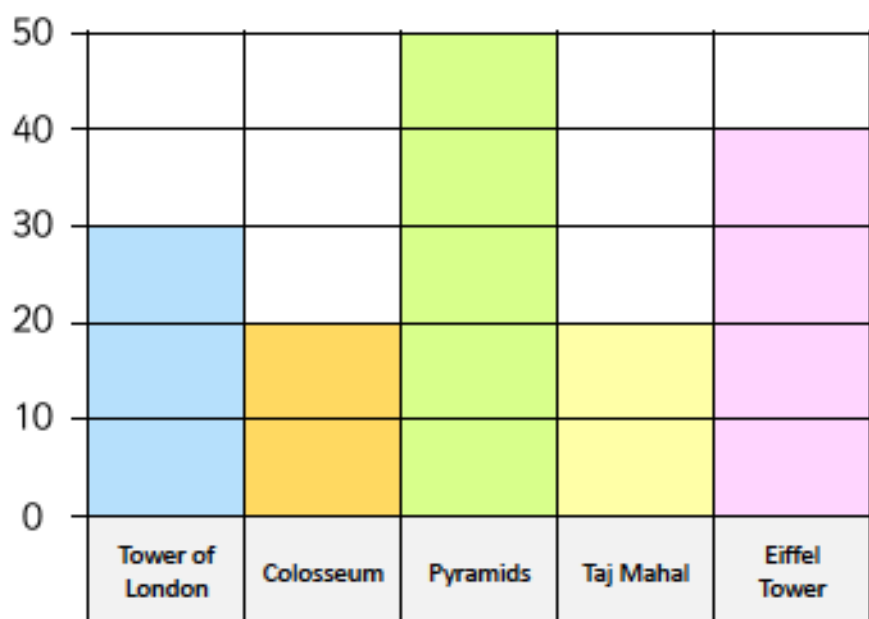
2 Favourite holiday destination.

| Destination | Number |
|-------------|--------|
| UK | 50 |
| France | 60 |
| Spain | 80 |
| Greece | 40 |
| Turkey | 60 |





The block diagram shows the most popular landmarks that people have visited in the past year.



Use the block diagram to answer the questions below.

- Which landmark was the **most** visited? _____
- Which landmark was the **least** visited? _____
- How many **more** people visited the Tower of London than the Taj Mahal? _____
- How many **fewer** people visited the Eiffel Tower than the Colosseum? _____
- How many people voted in total? _____
- Order the landmarks visited from **most** to **least** popular: _____

