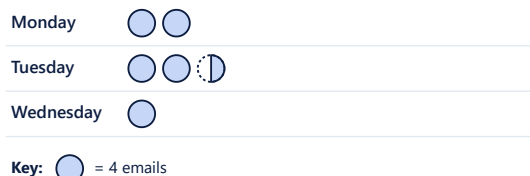




- 1 The pictogram shows the number of emails Priya received on three days.

Key: ● represents 4 emails

Write down the number of emails Priya received on Tuesday.



(1 mark)

Each full circle represents 4 emails, so a half circle represents 2 emails

Tuesday shows 2 full circles and 1 half circle

$$4 + 4 + 2 = 10 \text{ emails}$$

10

- 2 Show the number 8 as a tally.

(1 mark)

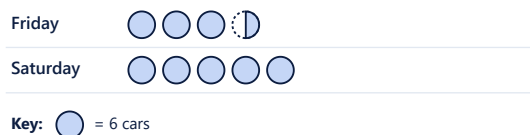
$$8 = 5 + 3$$



- 3 The pictogram shows the number of cars washed at a garage on Friday and Saturday.

Key: ● represents 6 cars

Work out how many more cars were washed on Saturday than on Friday.



(2 marks)

Friday

$$3 \text{ full circles and 1 half circle} = 18 + 3 = 21 \text{ cars}$$

Saturday

$$5 \text{ full circles} = 30 \text{ cars}$$

Difference

$$30 - 21 = 9 \text{ cars}$$

9

- 4 Some children chose their favourite pet. The tally chart shows the results.

Pet	Tally
Cat	
Dog	
Fish	
Rabbit	

- a. Write down the number of children who chose cat.
b. Work out the total number of children.

(3 marks)

a.)

$$2 \text{ groups of } 5 = 10$$

$$10 + 3 = 13$$

13

b.)

Dog 7, Fish 4, Rabbit 10

$$13 + 7 + 4 + 10 = 34$$

34

- 5 Here are the colours of 15 cars that drove past a school.

red, blue, red, white, blue, red, white, white, red, blue, red, black, white, red, blue
Copy and complete the table.

Colour	Tally	Frequency
Red		
Blue		
White		
Black		

Write down the most common colour.

(3 marks)

$$\text{Red: } <s> |||| </s> = 6$$

$$\text{Blue: } |||| = 4$$

$$\text{White: } |||| = 4$$

$$\text{Black: } | = 1$$

$$\text{check: } 6 + 4 + 4 + 1 = 15$$

most common: red

- 6 A pictogram shows the number of tickets sold at a cinema each day.

Key: ● represents 8 tickets

On Thursday 20 tickets were sold.

Work out how many circles should be drawn in the pictogram for Thursday.

(2 marks)

$$20 \text{ divided by } 8 = 2.5$$

So Thursday needs 2 full circles and 1 half circle, which is 2 and a half circles

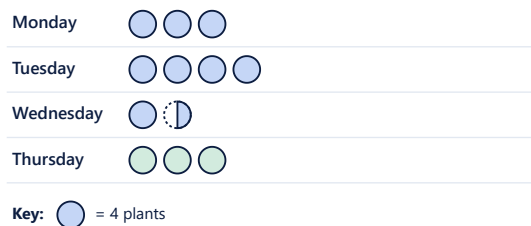
2 and a half circles

7 The pictogram shows the number of plants a garden centre sold on Monday, Tuesday and Wednesday.

Key: ● represents 4 plants

The garden centre sold 46 plants in total from Monday to Thursday.

Work out how many circles should be drawn for Thursday.



(3 marks)

Monday

$3 \times 4 = 12$ plants. Tuesday: $4 \times 4 = 16$ plants. Wednesday: $1.5 \times 4 = 6$ plants

Total shown so far

$12 + 16 + 6 = 34$ plants

Thursday

$46 - 34 = 12$ plants

12 divided by 4 = 3, so 3 full circles should be drawn

3 circles

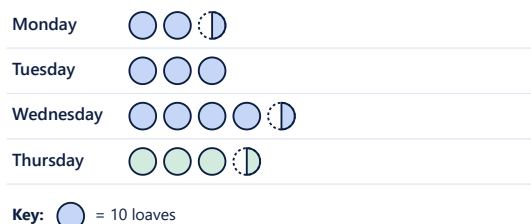
8 The pictogram shows the number of loaves a bakery sold on three days.

Key: ● represents 10 loaves

a. Write down the number of loaves sold on Monday.

b. The bakery sold 35 loaves on Thursday. How many circles should be drawn for Thursday?

c. Work out the total number of loaves sold from Monday to Thursday.



(4 marks)

a) Monday shows 2 full circles and 1 half circle

$20 + 5 = 25$ loaves

b) 35 divided by 10 = 3.5, so 3 full circles and 1 half circle

c) Tuesday = 30 and Wednesday = $4.5 \times 10 = 45$

Total

$25 + 30 + 45 + 35 = 135$ loaves

9 The pictogram shows the number of muffins three friends sold at a school fair. The key is missing.

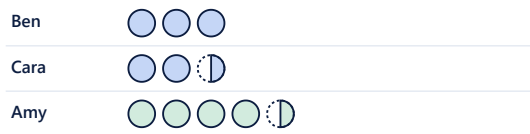
Key: ● represents muffins

Ben sold 18 muffins.

a. Complete the key.

b. Write down the number of muffins Cara sold.

c. Amy sold 27 muffins. How many circles should be drawn for Amy?



Key:  = 6 muffins

(4 marks)

a) Ben's 3 circles represent 18 muffins, so each circle represents 18 divided by 3 = 6 muffins

b) Cara

$$2.5 \times 6 = 15 \text{ muffins}$$

c) Amy

$$27 \text{ divided by } 6 = 4.5, \text{ so } 4 \text{ full circles and } 1 \text{ half circle}$$

10 The pictogram shows the number of cakes a stall sold on Saturday and Sunday.

Key: ● represents 4 cakes

Each cake was sold for £2.40.

Work out the total amount of money the stall took from selling cakes on Saturday and Sunday.



Key:  = 4 cakes

(4 marks)

Saturday

$$4.5 \times 4 = 18 \text{ cakes}$$

Sunday

$$2.5 \times 4 = 10 \text{ cakes}$$

Total cakes

$$18 + 10 = 28$$

Total money

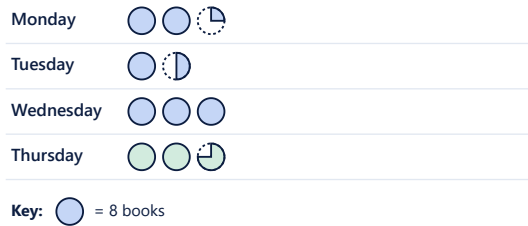
$$28 \times £2.40 = £67.20$$

£67.20

- 11 The pictogram shows the number of books borrowed from a school library on three days.

Key: ● represents 8 books, ◐ represents 4 books, ◑ represents 2 books

- Write down the number of books borrowed on Monday.
- Work out how many more books were borrowed on Wednesday than on Tuesday.
- On Thursday 22 books were borrowed. Describe the circles that should be drawn for Thursday.



(5 marks)

a) Monday

$$8 + 8 + 2 = 18 \text{ books}$$

b) Wednesday

$$3 \times 8 = 24 \text{ books. Tuesday: } 8 + 4 = 12 \text{ books. Difference: } 24 - 12 = 12 \text{ books}$$

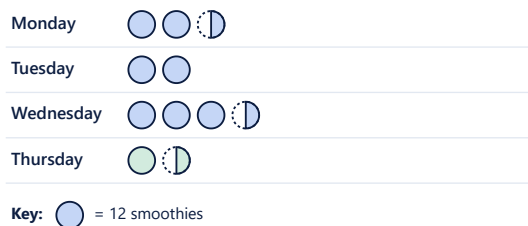
c) $22 = 16 + 4 + 2$, so draw 2 full circles (16), 1 half circle (4) and 1 quarter circle (2)

Two full circles and one three-quarter circle show the same amount as two full circles, a half circle and a quarter circle. Either drawing is valid

- 12 The pictogram shows the number of smoothies a cafe sold on three days.

Key: ● represents 12 smoothies

- Write down the number of smoothies sold on Wednesday.
- On Thursday 18 smoothies were sold. How many circles should be drawn for Thursday?
- Leah says, "The cafe sold more than 100 smoothies in total over the four days." Is Leah correct? You must show your working.



(5 marks)

a) Wednesday

$$3.5 \times 12 = 42 \text{ smoothies}$$

b) 18 divided by 12 = 1.5, so 1 full circle and 1 half circle

c) Monday

$$2.5 \times 12 = 30. \text{ Tuesday: } 2 \times 12 = 24$$

Total

$$30 + 24 + 42 + 18 = 114. 114 > 100, \text{ so Leah is correct}$$

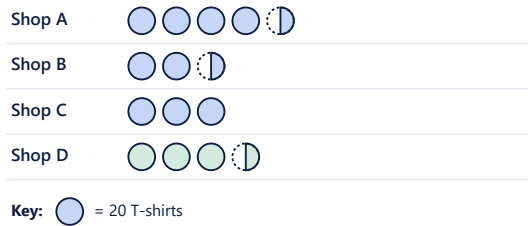
13 The pictogram shows the number of T-shirts sold by four shops in one week.

Key: ● represents 20 T-shirts

a. Write down the number of T-shirts Shop B sold.

b. Shop D sold 70 T-shirts. How many circles should be drawn for Shop D?

c. The four shops had a combined target of 250 T-shirts for the week. Did they meet the target? You must show your working.



(6 marks)

a.) Shop B

$$2.5 \times 20 = 50 \text{ T-shirts}$$

b) 70 divided by 20 = 3.5, so 3 full circles and 1 half circle

c.) Shop A

$$4.5 \times 20 = 90. \text{ Shop C: } 3 \times 20 = 60$$

Total

$$90 + 50 + 60 + 70 = 270$$

270 > 250, so yes, they beat the target by 20 T-shirts

14 20 students were each asked to choose their favourite sport. Here are the results.

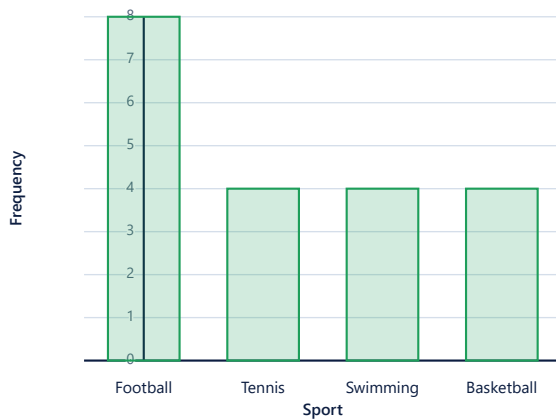
F T S F B F T S F B F T F S B F T S F B

F = Football, T = Tennis, S = Swimming, B = Basketball

a. Complete a frequency table for these results.

b. Draw a bar chart for this information.

c. Write down the modal sport.



(6 marks)

a) Counting the letters

F appears 8 times, T appears 4 times, S appears 4 times, B appears 4 times. Check: 8 + 4 + 4 + 4

b) Draw bars of equal width with gaps: Football 8, Tennis 4, Swimming 4, Basketball 4. Label both axes

c) Football has the highest frequency, so the modal sport is football