

Year 4: Pictograms: answers

Year 4 - Pictograms, Bar Charts and Time Graphs - Lesson 11.2

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch11-statistics/pictograms/

Exercise 11B Pictograms Non-calculator

- 1 The key says 1 face = 1 child. Read the pictogram.



- (a) How many children chose football?

Answer: 9

- (b) How many children chose dancing?

Answer: 11

- (c) How many children chose judo?

Answer: 4

- (d) How many children chose football or judo?

Answer: 13

- 2 The key says 1 star = 2 kg of fruit and half a star = 1 kg.



- (a) How many kilograms of apples were sold?

Answer: 12

- (b) How many kilograms of pears were sold?

Answer: 7

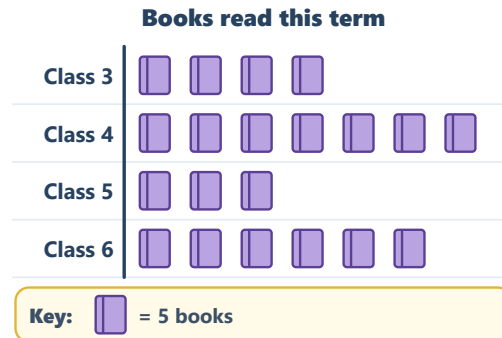
(c) How many kilograms of plums were sold?

Answer: 9

(d) How many kilograms of cherries were sold?

Answer: 4

3 Each book symbol stands for 5 books.



(a) How many books did Class 4 read?

Answer: 35

(b) Which class read the fewest books?

Answer: Class 5

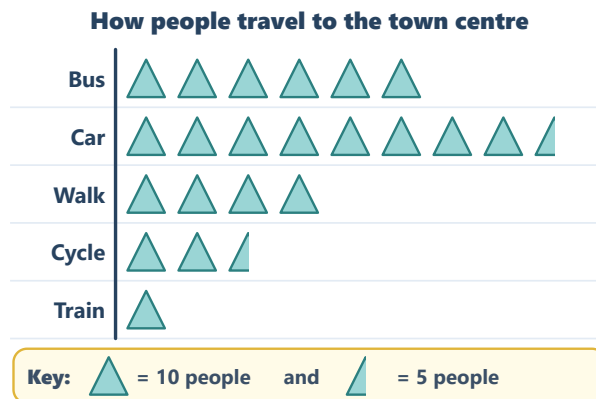
(c) How many more books did Class 6 read than Class 5?

Answer: 15

(d) How many books did the four classes read altogether?

Answer: 100

4 The key says 1 triangle = 10 people and half a triangle = 5 people.



(a) How many people travel by car?

Answer: 85

(b) How many people travel by cycle?

Answer: 25

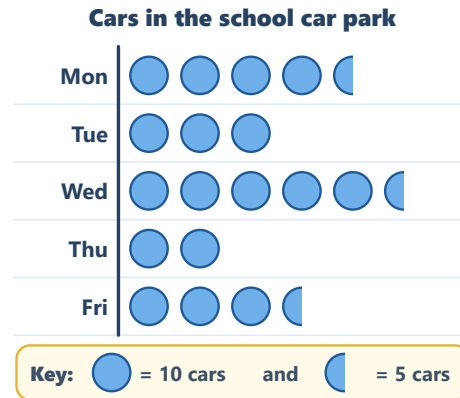
(c) Which way of travelling is the most popular?

Answer: Car

- (d) How many more people go by car than by bus?

Answer: 25

- 5 Put the days in order, from the most cars to the fewest cars.



Answer: Wed, Mon, Fri, Tue, Thu

- 6 How many symbols are needed to show each number? One symbol = the key given. Write the number of symbols.

- (a) 12 when 1 symbol = 2

Answer: 6 symbols

- (b) 15 when 1 symbol = 5

Answer: 3 symbols

- (c) 40 when 1 symbol = 10

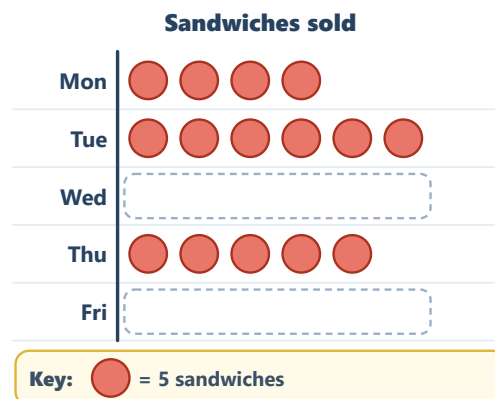
Answer: 4 symbols

- (d) 45 when 1 symbol = 10

Answer: 4 symbols and a half symbol

- 7 The table shows the sandwiches sold each day. Part of the pictogram is drawn. Work out the symbols needed for Wednesday and Friday. Key: 1 circle = 5 sandwiches.

Day	Mon	Tue	Wed	Thu	Fri
Sandwiches	20	30	15	25	35



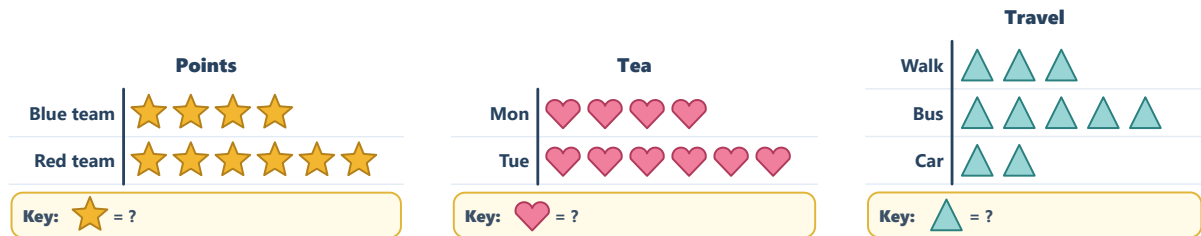
- (a) How many symbols for Wednesday (15 sandwiches)?

Answer: 3 symbols

- (b) How many symbols for Friday (35 sandwiches)?

Answer: 7 symbols

- 8 The key is hidden in each pictogram. Work out how much one symbol is worth.



- (a) The Blue team row has 4 stars. The Blue team scored 12 points.

Answer: 3

- (b) The Tuesday row has 6 hearts. 24 cups of tea were drunk on Tuesday.

Answer: 4

- (c) The Bus row has 5 triangles. 50 pupils came by bus.

Answer: 10

- 9 Draw a pictogram for the data in the table. Use 1 heart = 2 pets. Write how many hearts are needed in each row.

Pet	Cats	Dogs	Birds	Fish
Number	8	12	6	10

Answer: Cats: 4 symbols; Dogs: 6 symbols; Birds: 3 symbols; Fish: 5 symbols

- 10 Draw a pictogram for the plants sold. Use 1 star = 5 plants.

Plant	Rose	Tulip	Daisy	Lily
Sold	35	20	40	15

Answer: Rose: 7 symbols; Tulip: 4 symbols; Daisy: 8 symbols; Lily: 3 symbols

- 11 Zainab draws a pictogram of the stickers some children have. Her key says 1 symbol = 4 stickers. Leo draws the same data with the key 1 symbol = 2 stickers. How many symbols does each child need in Leo's pictogram?

- (a) Amira has 12 stickers

Answer: 6 symbols

- (b) Noah has 8 stickers

Answer: 4 symbols

- (c) Priya has 20 stickers

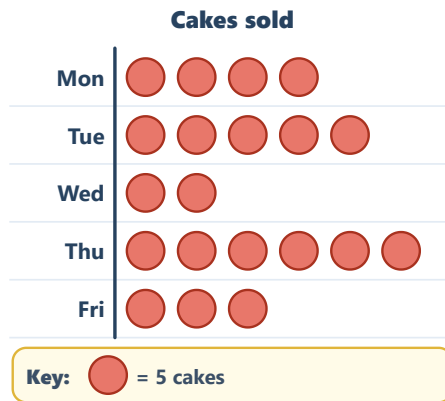
Answer: 10 symbols

- 12 Tom looks at the pictogram. He says, "Tuesday has 8 stars, because I counted 8 symbols." Is he right? Explain.



Answer: No. One symbol is 2, so Tuesday has 16 stars

- 13** The pictogram shows the cakes sold at the school sale. On Saturday the school sold 30 more cakes than on Wednesday. How many cakes were sold on Saturday?



Answer: 40

- 14** A pictogram uses 1 symbol = 10 pupils. Red has 2 whole symbols and a half. Blue has 3 whole symbols. Green has the rest of 85 pupils altogether. How many symbols, and half symbols, does Green have?

Answer: 3 symbols (no half symbol)