

Graphs and charts - quiz

Level A

1. In a tally chart, what number does this represent? 

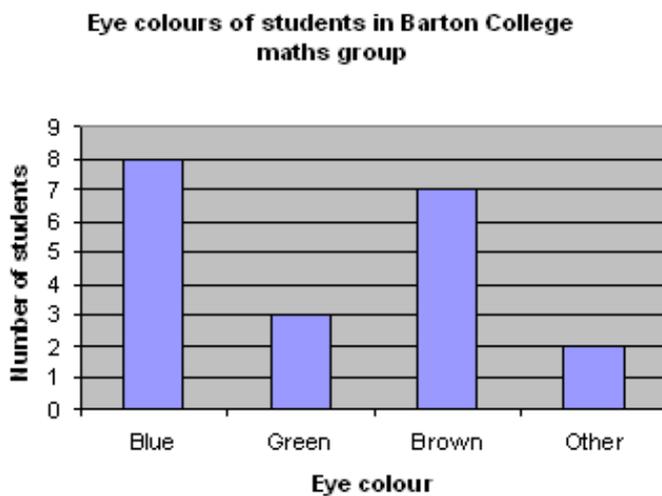
- A) 2
- B) 4
- C) 8
- D) 10

2. In a pictogram if  represents 2 people,
then how many people do these symbols represent?



- A) 3 people
- B) 5 people
- C) 6 people
- D) 9 people

3. Look at this bar chart, how many students have brown eyes?

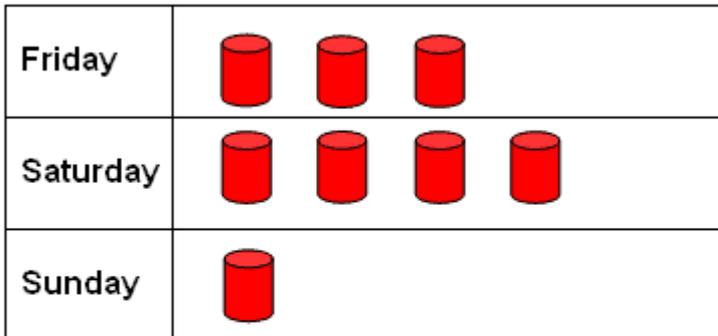


- A) 2 students
- B) 3 students
- C) 7 students
- D) 8 students

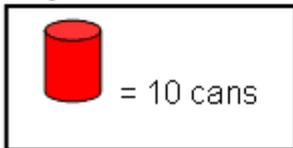
Graphs and charts - quiz

4. Look at this pictogram. How many more cans were sold on Friday than on Sunday?

Cans of drink sold over 3 days



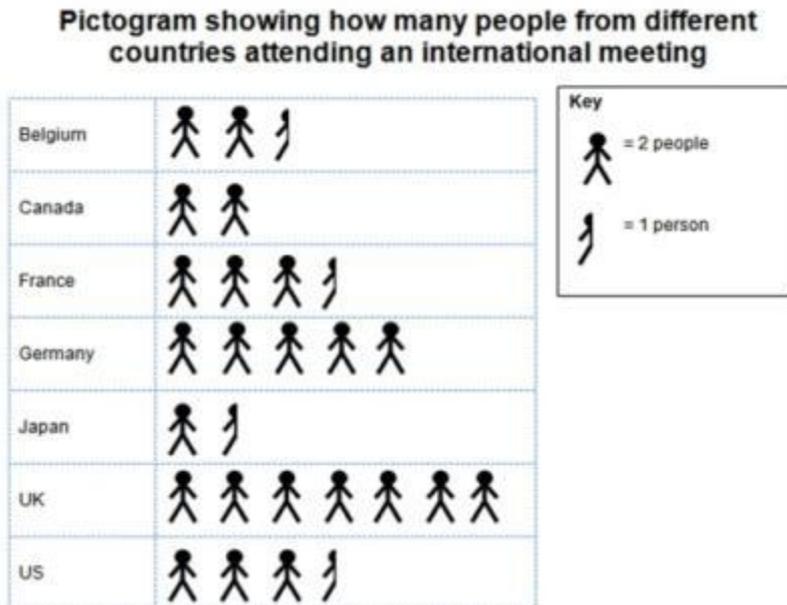
Key:



- A) 2 cans
 - B) 10 cans
 - C) 20 cans
 - D) 30 cans
5. In a tally chart, frequency means:
- A) The number of times something is recorded
 - B) The mark you make when you are counting things
 - C) The number of rows in the tally chart
 - D) The number of columns in a tally

Graphs and charts - quiz

6. How many people attended the meeting from Germany?

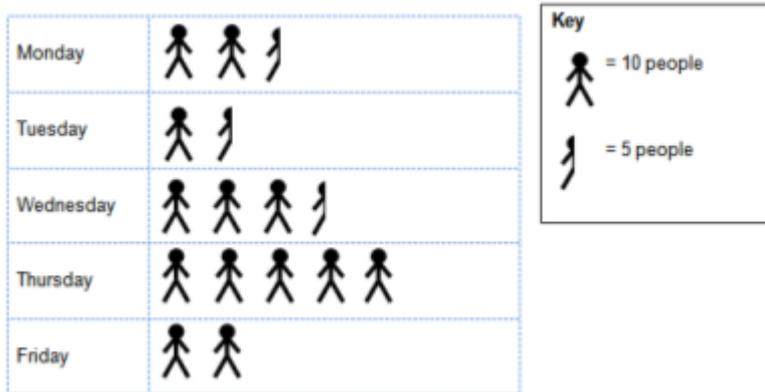


- A) 5
B) 6
C) 8
D) 10
7. How many people attended the meeting from Belgium and France (see pictogram above)?
- A) 10
B) 12
C) 14
D) 20

Graphs and charts - quiz

8. How many people attended the doctor's surgery on Tuesday?

Pictogram showing how many people attended a doctor's surgery



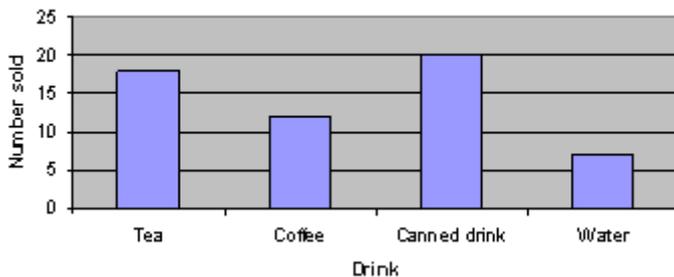
- A) 1.5
- B) 2
- C) 15
- D) 20

9. 50 people attended the doctor's surgery on (see pictogram above):

- A) Monday
- B) Wednesday
- C) Thursday
- D) Friday

10. Look at this table. The scale shows you that each division represents the sale of how many drinks?

Vending machine drink sales on Tuesday

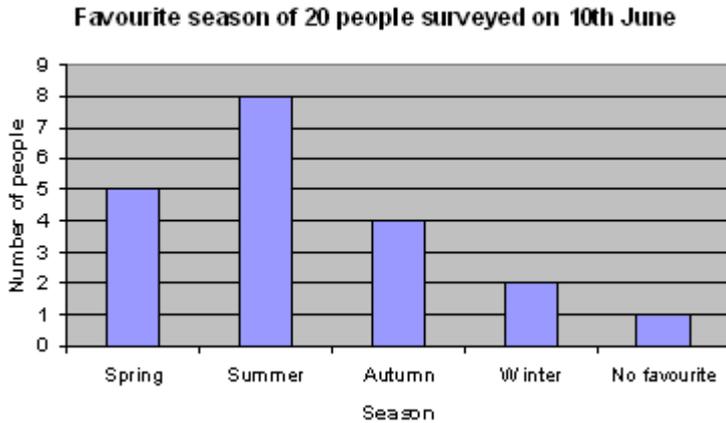


- A) 5 drinks
- B) 10 drinks
- C) 15 drinks
- D) 20 drinks

Graphs and charts - quiz

Level B

1. On a bar chart like this, the vertical axis is:



- A) The line along the bottom of the chart
- B) The line which goes from top to bottom on the left hand side of the chart
- C) Another name for the upright columns
- D) Another name for the title

2. On a bar chart (see above) the horizontal axis is:

- A) Another name for the upright columns
- B) The line along the bottom of the chart
- C) The line which goes from top to bottom on the left hand side of the chart
- D) Another name for the title

3. On a pictogram if  = 10 Christmas trees.

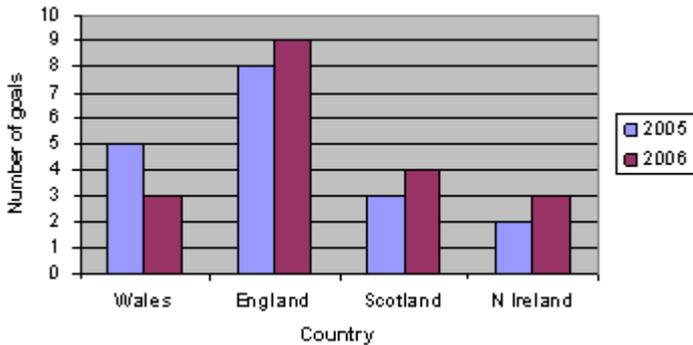
Then how many trees do these symbols represent?



- A) 3 and 1/2 trees
- B) 30 and 1/2 trees
- C) 35 trees
- D) 40 trees

Graphs and charts - quiz

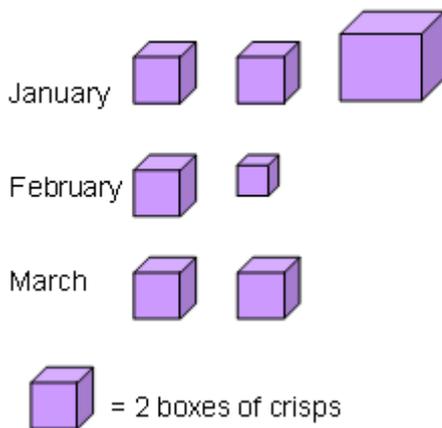
4. What's missing from this bar chart?



- A) A title
- B) A label on the vertical axis
- C) A label on the horizontal axis
- D) A key

5. What's wrong with this pictogram?

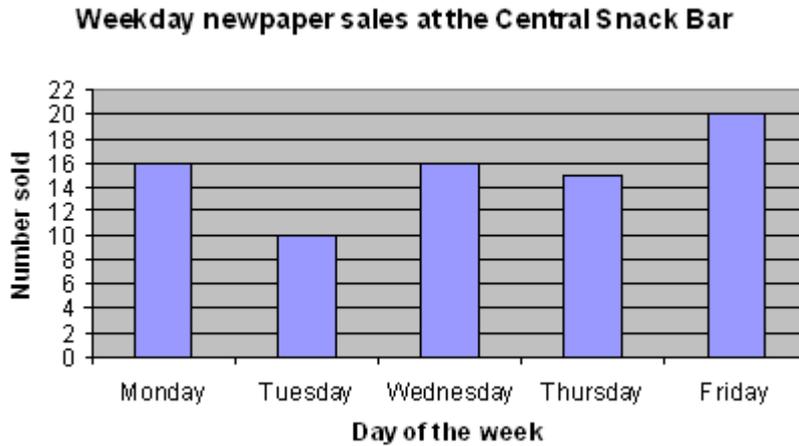
Boxes of crisps sold - January to March



- A) There's no title
- B) There's no key
- C) The boxes are different sizes
- D) The number of packets of crisps in each box isn't shown

Graphs and charts - quiz

6. Look at this bar chart. On which day were the fewest newspapers sold?



- A) Monday
 - B) Tuesday
 - C) Wednesday
 - D) Friday
7. In total, how many newspapers were sold on Thursday and Friday (see image above)?

- A) 15 newspapers
- B) 20 newspapers
- C) 35 newspapers
- D) 36 newspapers

8. Look at this tally chart. Which colour has the wrong number recorded in the total column?

Survey of favourite colours:

- A) Blue
- B) Green
- C) Red
- D) Yellow

Colour	Tally	Total
Blue		7
Green		3
Red		4
Yellow		11

Graphs and charts - quiz

9. What is the total number of people who like to attend the gym?

Sports activity	Tally	Total
Badminton		
Football		
Gym		
Swimming		

- A) 3
- B) 10
- C) 11
- D) 12

10. The most popular sport (see image above) is...

- A) Badminton
- B) Football
- C) Gym
- D) Swimming

Graphs and charts - quiz

Level C

1. Look at this tally chart. In total how many people were asked about where they live?

Survey of where people live:

Type of accommodation	Tally
House	HHH HHH III
Bungalow	IIII
Flat or apartment	HHH HHH
Other	III

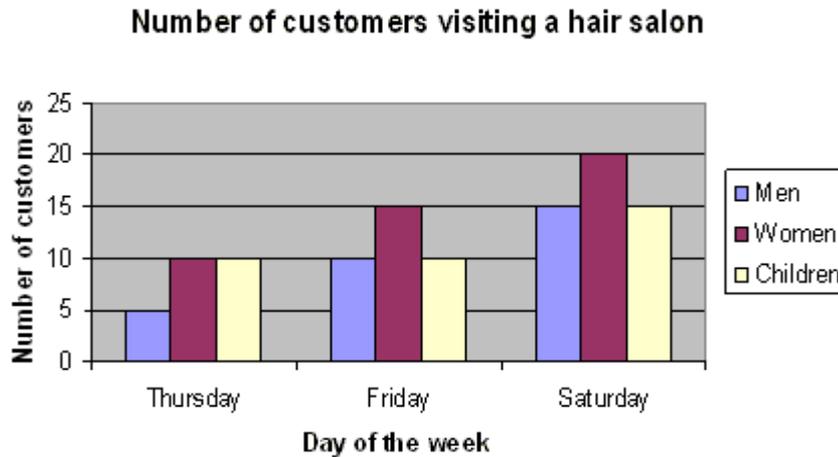
- A) 4
- B) 7
- C) 26
- D) 30

2. How many more people live in houses than in bungalows (see image above)?

- A) 4
- B) 9
- C) 13
- D) 17

Graphs and charts - quiz

3. Look at this bar chart. What does the key tell you?

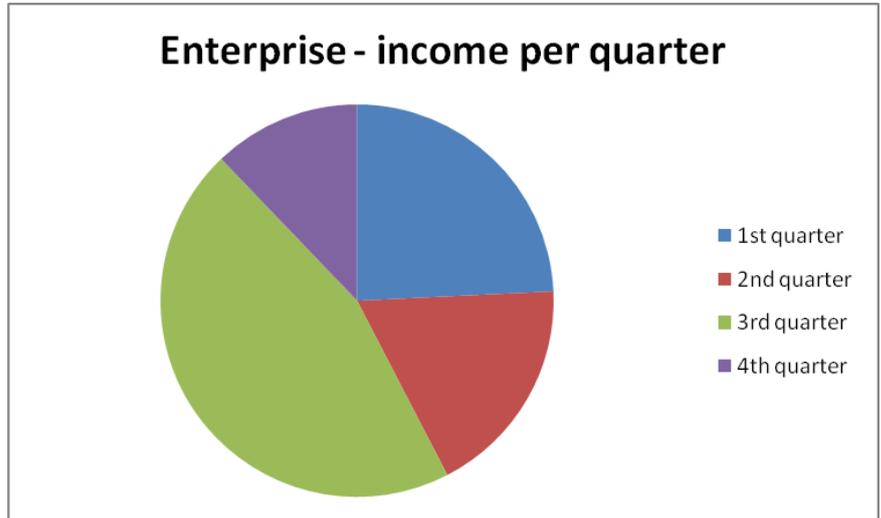


- A) What the chart is all about
B) The days of the week
C) The number of people who visited the hair salon
D) What each bar colour represents
4. In total, how many people visited the hair salon on Saturday (see image above)?
- A) 20
B) 35
C) 50
D) 110

Graphs and charts - quiz

5. A social enterprise generates income through bidding for contracts. The pie chart shows the income generated in each quarter (3-month period) of one year. The enterprise earned the most in the 2nd quarter.

- A) True
B) False

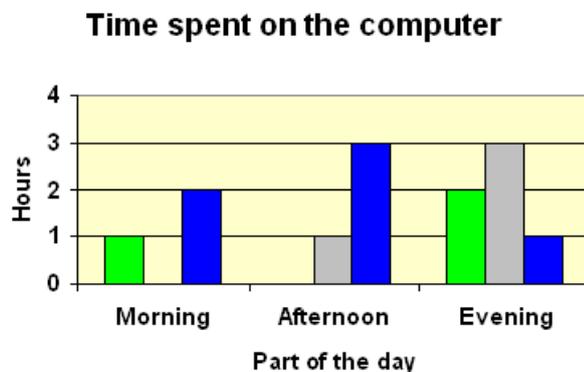


6. In the first quarter of the year, the enterprise generated more income than in the 4th quarter (see image above)?

- A) True
B) False

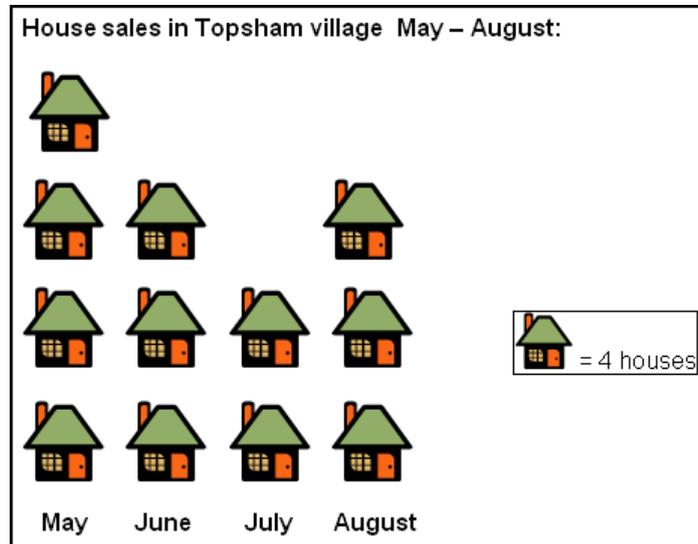
7. What is missing from this bar chart?

- A) A title
B) Tally marks
C) A horizontal axis
D) A key



Graphs and charts - quiz

8. Look at this pictogram. How many houses were sold in May?



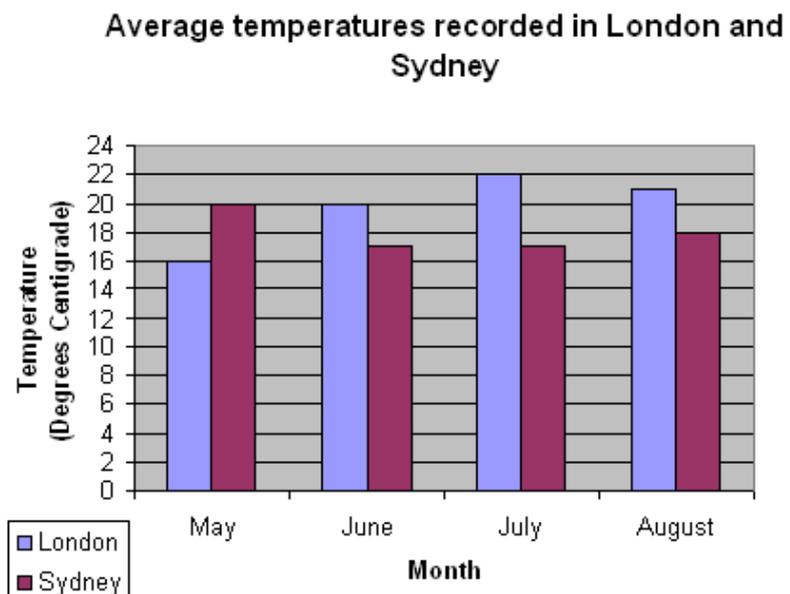
- A) 3 houses
- B) 4 houses
- C) 12 houses
- D) 16 houses

9. If 2 houses were sold in September, then you would show this on the pictogram by adding a fifth column of:

- A) 2 houses
- B) 1/2 a house
- C) 8 houses
- D) You can't show less than 4 houses

10. In which month is there the biggest difference between the temperatures in London and in Sydney?

- A) May
- B) June
- C) July
- D) August



Graphs and charts - quiz

Answers

Level A

1. The correct answer is: D. 10

2. The correct answer is: C. 6 people

Each smiley face represents 2 people. To work out how many people 3 smiley faces represent, multiply 2 (what each picture represents) by 3 (the number of pictures): $3 \times 2 = 6$. Three pictures represent 6 people.

3. The correct answer is: C. 7 students have brown eyes.

4. The correct answer is: C. 20 cans

The difference between Friday (30 cans) and Sunday (10 cans) is: $30 - 10 = 20$. 20 more cans were sold on Friday than on Sunday.

5. The correct answer is: A. The number of times something is recorded.

In a tally chart frequency means the number of times something is recorded.

6. The correct answer is: D. 10

As each figure represents 2 people and there are 5 matchstick figures shown for Germany, the calculation is $5 \times 2 = 10$

7. The correct answer is: B. 12

Using the key in the pictogram, we can see that 5 people attended from Belgium and 7 from France. Together that makes 12 people.

8. The correct answer is: C. 15

There are $1\frac{1}{2}$ matchstick figures in the pictogram, and the key says that 1 figure represents 10 people. So $1\frac{1}{2}$ matchstick figures = $1.5 \times 10 = 15$ people

9. The correct answer is: C. Thursday.

There are 5 matchstick figures shown for Thursday. That's $5 \times 10 = 50$

10. The correct answer is: A. 5 drinks.

To work out the value of the divisions on the scale, look at the difference between each

Graphs and charts - quiz

division. On the 'y' axis the scale goes up in divisions of 5: 0, 5, 10 etc. Each division represents the sale of 5 drinks.

Graphs and charts - quiz

Level B

1. The correct answer is: B. The vertical axis is the line which goes from top to bottom on the left hand side of the chart.

In this chart the vertical axis is labelled 'number of people'.

2. The correct answer is: B. The horizontal axis is the line along the bottom of the chart.

In this chart the horizontal axis is labelled 'Season'.

3. The correct answer is: C. 35 trees

In a pictogram each image usually represents more than 1. The key shows that 1 picture of a tree represents 10 trees. To find out how many 'actual trees' 3.5 'picture trees' represent, multiply 10 (for the number of actual trees each picture represents) by 3.5 (the number of 'picture trees'). So $3.5 \times 10 = 35$. There are 35 trees.

4. The correct answer is: A. A title.

A bar chart must have a title so that the person reading the chart knows what it is about.

5. The correct answer is: C. The boxes are different sizes.

The problem is the boxes, they are all different sizes. You wouldn't be able to tell how many boxes of crisps are sold, for example in January. In a pictogram each symbol or picture must be identical.

6. The correct answer is: B. Tuesday.

The fewest newspapers were sold on Tuesday.

7. The correct answer is: C. 35 newspapers.

On Thursday 15 newspapers were sold and on Friday 20 were sold:

$$15 + 20 = 35$$

On Thursday and Friday 35 newspapers were sold.

8. The correct answer is: C. Red.

Red has the wrong number recorded in the total column.

The total should be 5 not 4.

Graphs and charts - quiz

9. The correct answer is: D. 12.

Each "bundle" of tally marks represents 5 people so adding up all the tally marks in the row for gym is $5 + 5 + 2 = 12$

10. The correct answer is: D. Swimming.

As the tally chart shows that more people liked to do this than any of the other options. 23 chose swimming, which is more than 22 for gym, 7 for football and 6 for badminton.

Graphs and charts - quiz

Level C

1. The correct answer is: D. 30. To work out how many people, in total, were asked about where they lived you had to add up each type of accommodation:

House: 13

Bungalow: 4

Flat or apartment: 10

Other: 3

$$13 + 4 + 10 + 3 = 30$$

The total number of people surveyed was 30.

2. The correct answer is: B. 9. You had to work out the difference between the amount of people who live in bungalows (4) and houses (13).

$$13 - 4 = 9$$

9 more people live in houses than in bungalows.

3. The correct answer is: D. The key tells you what each bar colour represents.

4. The correct answer is: C. 50. To calculate the amount of people who visited the hair salon on Saturday you need to read the value of each bar on Saturday:

Men: 15 Women: 20 Children: 15

Next, add these up:

$$15 + 20 + 15 = 50$$

50 people visited the hair salon on Saturday.

Graphs and charts - quiz

5. The correct answer is: B. False.

The highest earnings were in the 3rd quarter.

6. The correct answer is: A. True.

You can estimate this just by comparing the size of the segments for each of quarters 1 and 4.

7. The correct answer is: D. A key.

The key tells you what the different colours of the columns mean.

8. The correct answer is: D. 16 houses.

The key shows that 1 picture of a house represents 4 houses sold. In the May column there are 4 houses. To find out how many houses 4 represent multiply 4 (the number of houses each picture represents) by 4 (the number of pictures):

$$4 \times 4 = 16$$

9. The correct answer is: B. 1/2 a house

In the key you can see that one whole picture of a house represents 4 houses. To show 2 houses you would show a picture of 1/2 a house.

10. The correct answer is: C. July

If you look carefully at the bar chart you can see that the biggest difference between temperatures in London and Sydney is in July.