Lesson 5
Can I solve problems with bar charts and pictograms?

Fast 5

Stationery	Number of Items Sold
Rubber	◖
Pencil	◯ ◯ ◯
Sticky tape	◯ ◯ ◯ ◯ ◯ ◝
Sharpener	◯ ◯ ◯ ◖
Scissors	◯ ◯ ◯ ◯ ◯ ◖

Key: ◯ = 12 sold

A. How many sharpeners were sold?

B. Which item was sold the most?

C. Which items have a difference of 30?

D. How many more scissors were sold compared to sticky tape?

Fast 5

| Stationery	Number of Items Sold
Rubber	◖
Pencil	◯ ◯ ◯
Sticky tape	◯ ◯ ◯ ◯ ◔
Sharpener	◯ ◯ ◯ ◖
Scissors	◯ ◯ ◯ ◯ ◯ ◖

Key: ◯ = 12 sold

A. How many sharpeners were sold?

B. Which item was sold the most?

C. Which items have a difference of 30?

D. How many more scissors were sold compared to sticky tape?

A. 42;
B. Scissors;
C. Pencil and rubber;
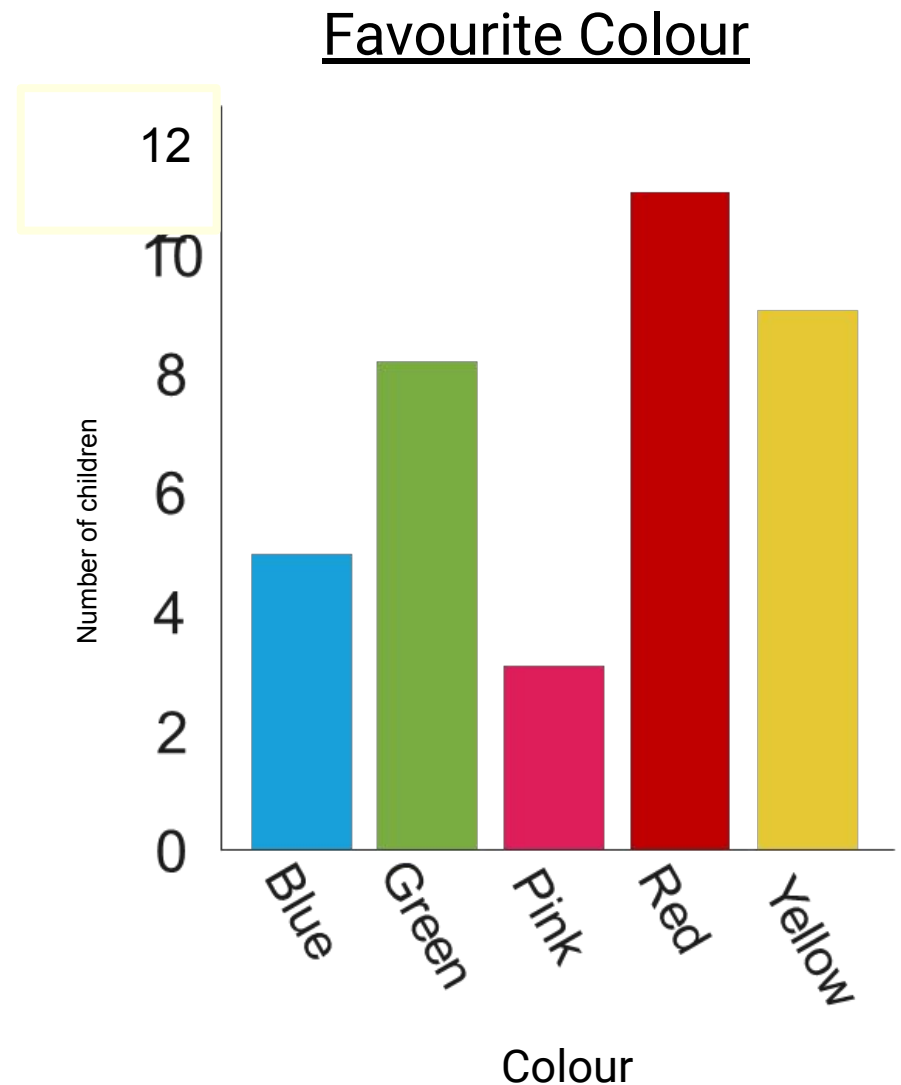D. 15

Favourite Colour

I collected some data about the favourite colour of children in my class. I drew the following bar chart:

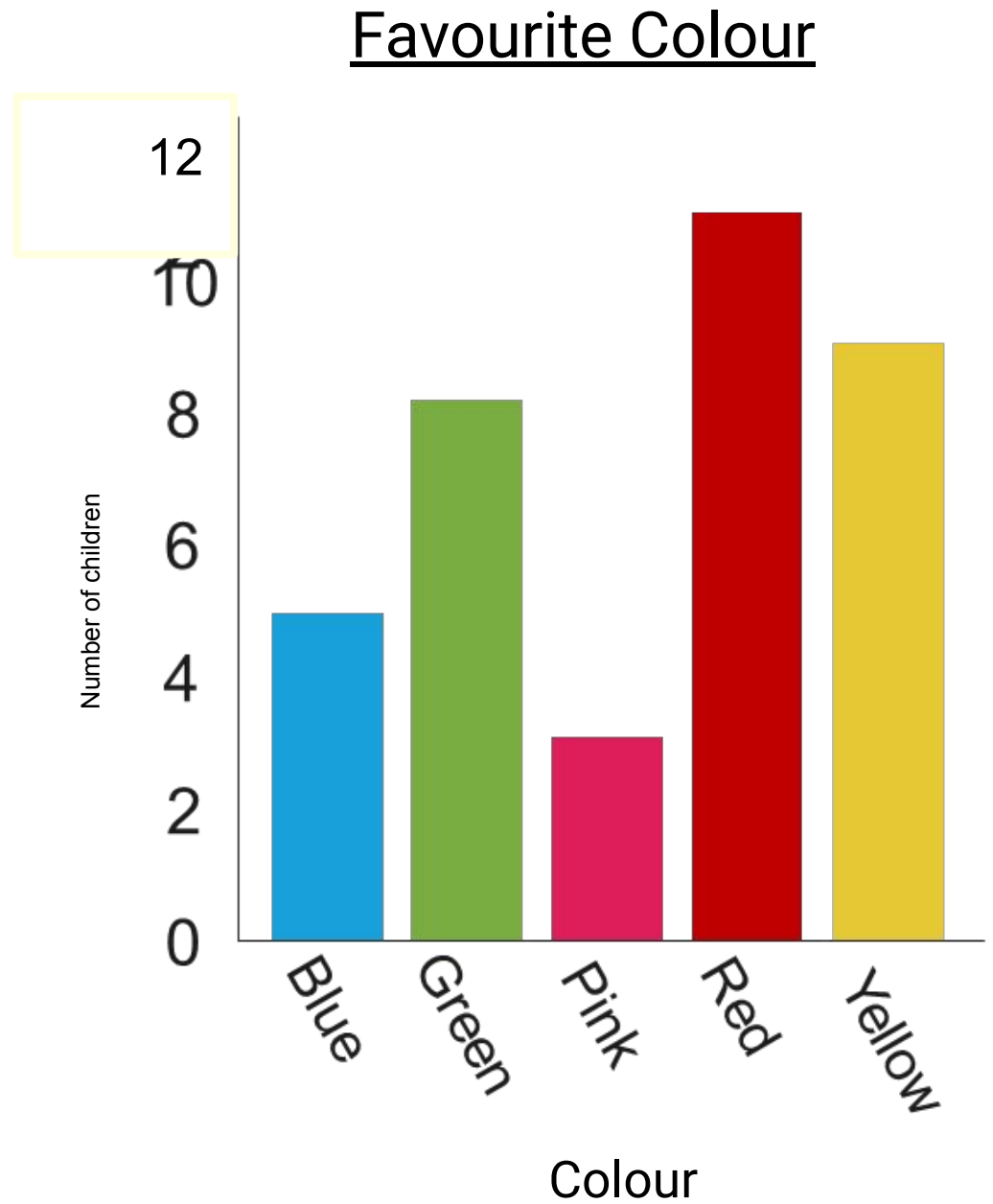What is the most and least favourite colour?
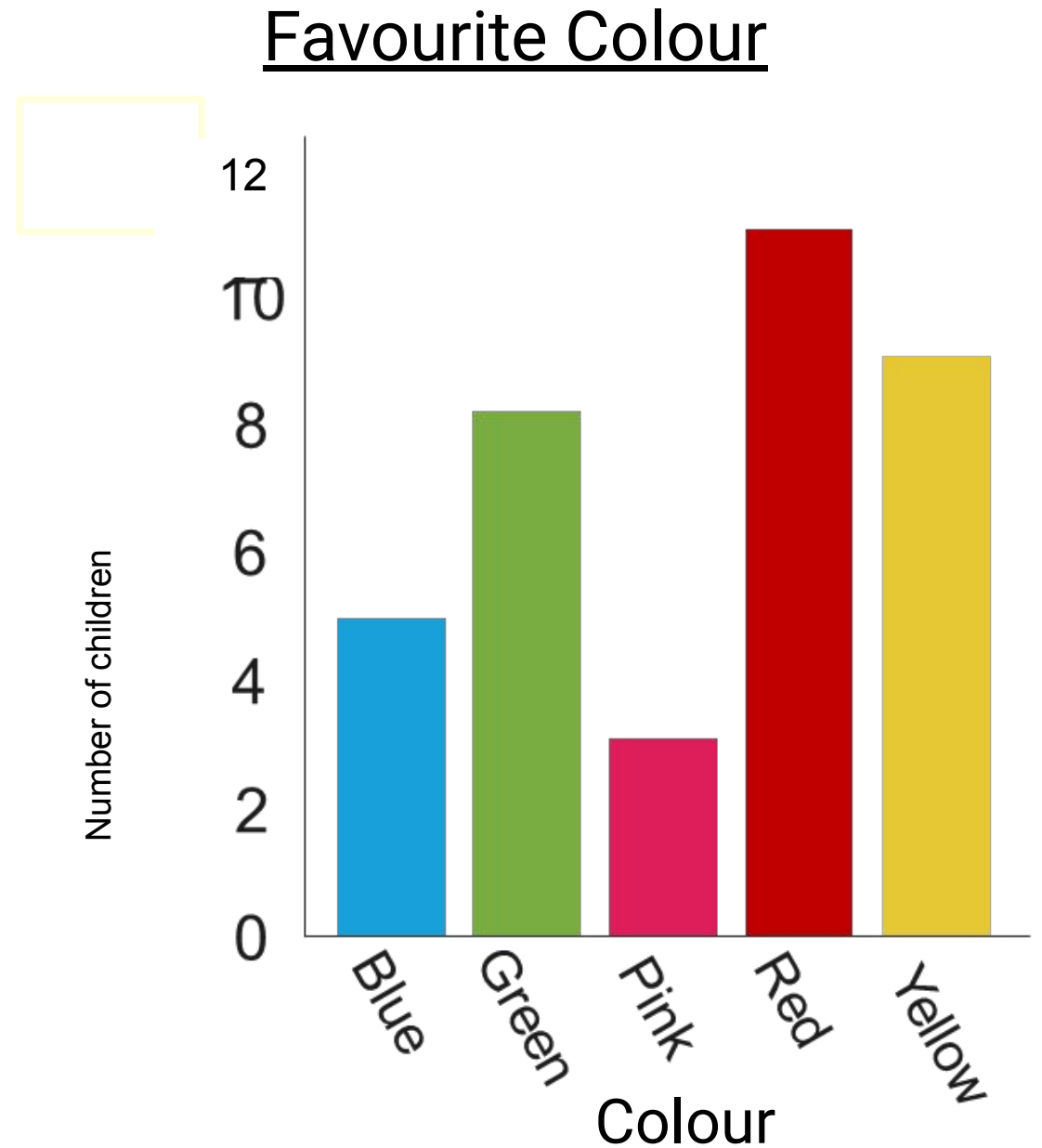
What is the most and least favourite colour?

The tallest bar is the favourite colour (red) and the smallest bar is the least favourite (pink).

Favourite Colour

Bar chart showing Number of children (y-axis, 0 to 12) by Colour (x-axis): Blue, Green, Pink, Red, Yellow.

Favourite Colour

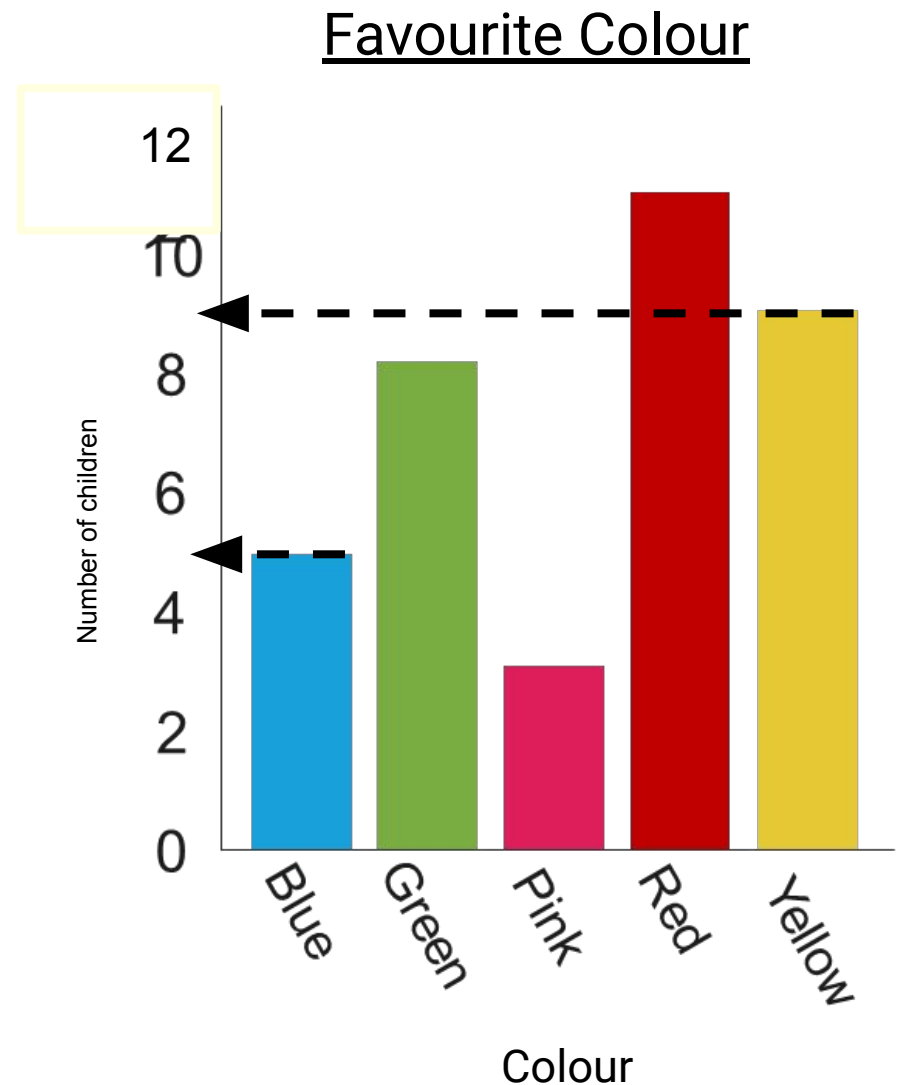How many more children chose yellow as favourite over those choosing blue?

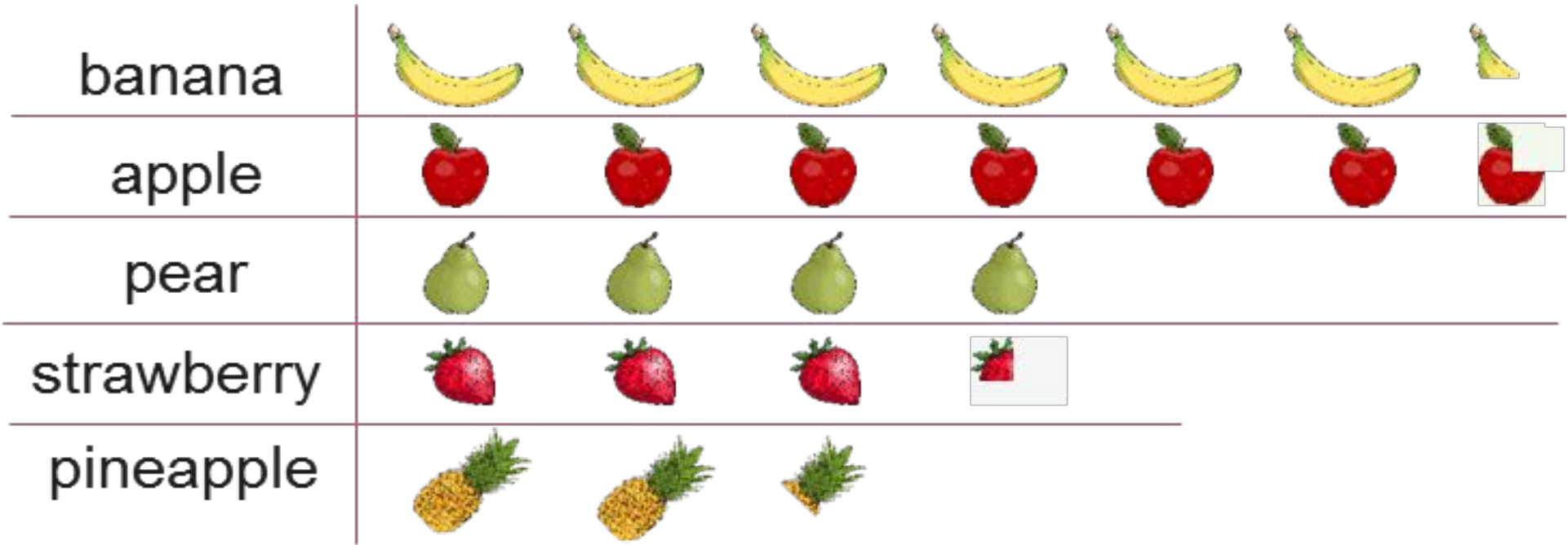How many more children chose yellow as favourite over those choosing blue?

 4

yellow is 9 and blue is 5, 9 − 5 = 4;

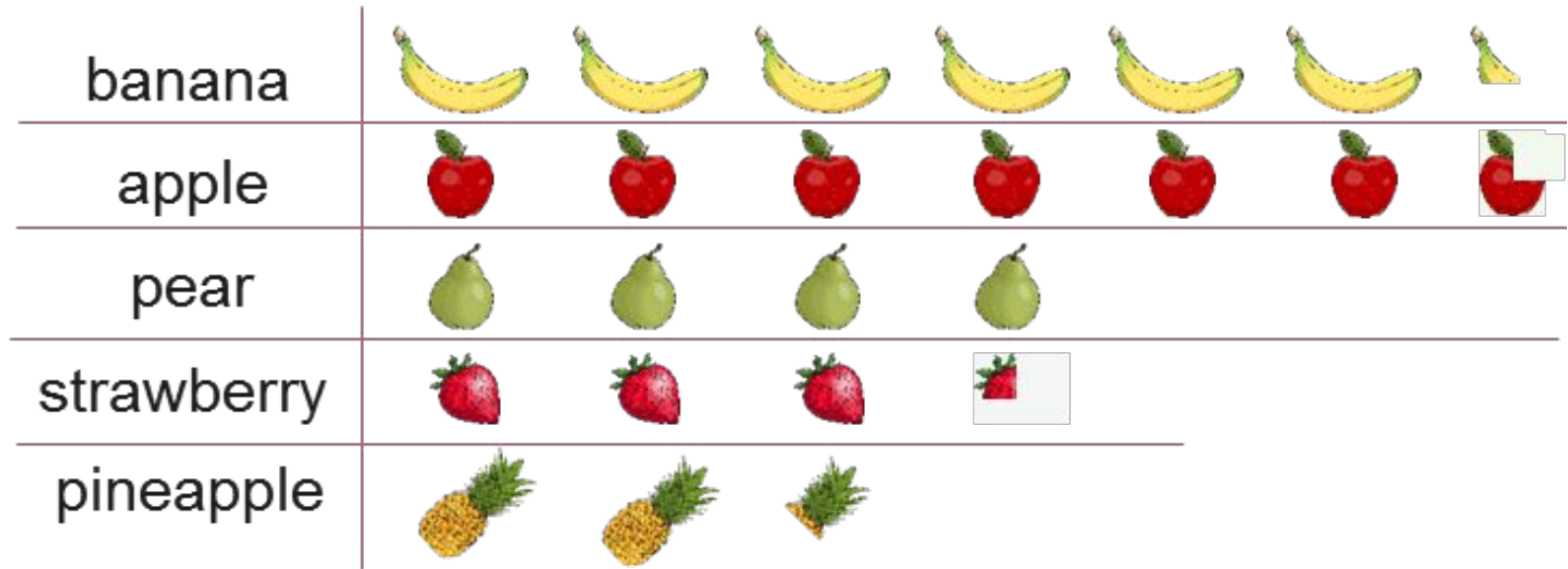look across from the top of the yellow and blue bar and the difference is 4

Number of children

12

10

8

6

4

2

0

Blue   Green   Pink   Red   Yellow

Colour

Fruit we have eaten

banana	🍌	🍌	🍌	🍌	🍌	🍌	🍌
apple	🍎	🍎	🍎	🍎	🍎	🍎	🍎
pear	🍐	🍐	🍐	🍐			
strawberry	🍓	🍓	🍓	🍓			
pineapple	🍍	🍍	🍍				

🍎 1 fruit = 4 children

I collected some data about fruit that
children in my class had eaten, and
completed this pictogram.

Fruit we have eaten

banana	🍌	🍌	🍌	🍌	🍌	🍌	🍌
apple	🍎	🍎	🍎	🍎	🍎	🍎	🍎
pear	🍐	🍐	🍐	🍐			
strawberry	🍓	🍓	🍓	🍓			
pineapple	🍍	🍍	🍍				

🍎 1 fruit = 4 children

I collected some data about fruit that children in my class had eaten, and completed this pictogram.

What is the most and least commonly eaten fruit?

Fruit we have eaten

1 fruit = 4 children

What is the most and least commonly eaten fruit?
The longest set is the most common (apple) and the shortest set is the least common (pineapple).

Fruit we have eaten

1 fruit = 4 children

How many more children ate bananas than ate strawberries?

Fruit we have eaten

banana	🍌	🍌	🍌	🍌	🍌	🍌	🍌
apple	🍎	🍎	🍎	🍎	🍎	🍎	🍎
pear	🍐	🍐	🍐	🍐			
strawberry	🍓	🍓	🍓	🍓			
pineapple	🍍	🍍	🍍				

🍎 1 fruit = 4 children

How many more children ate bananas than ate strawberries?

12

bananas are 25 and strawberries are 13, 25 − 13 = 12; match the 13 and you are left with 12 bananas.

Fruit we have eaten

banana	🍌	🍌	🍌	🍌	🍌	🍌	🍌
apple	🍎	🍎	🍎	🍎	🍎	🍎	🍎
pear	🍐	🍐	🍐	🍐			
strawberry	🍓	🍓	🍓	🍓			
pineapple	🍍	🍍	🍍				

🍎 1 fruit = 4 children

How many children were asked about the fruit they have eaten?

Fruit we have eaten

How many children were asked about the fruit they have eaten?

banana	🍌 🍌 🍌 🍌 🍌 🍌 🍌
apple	🍎 🍎 🍎 🍎 🍎 🍎 🍎
pear	🍐 🍐 🍐 🍐
strawberry	🍓 🍓 🍓 🍓
pineapple	🍍 🍍 🍍
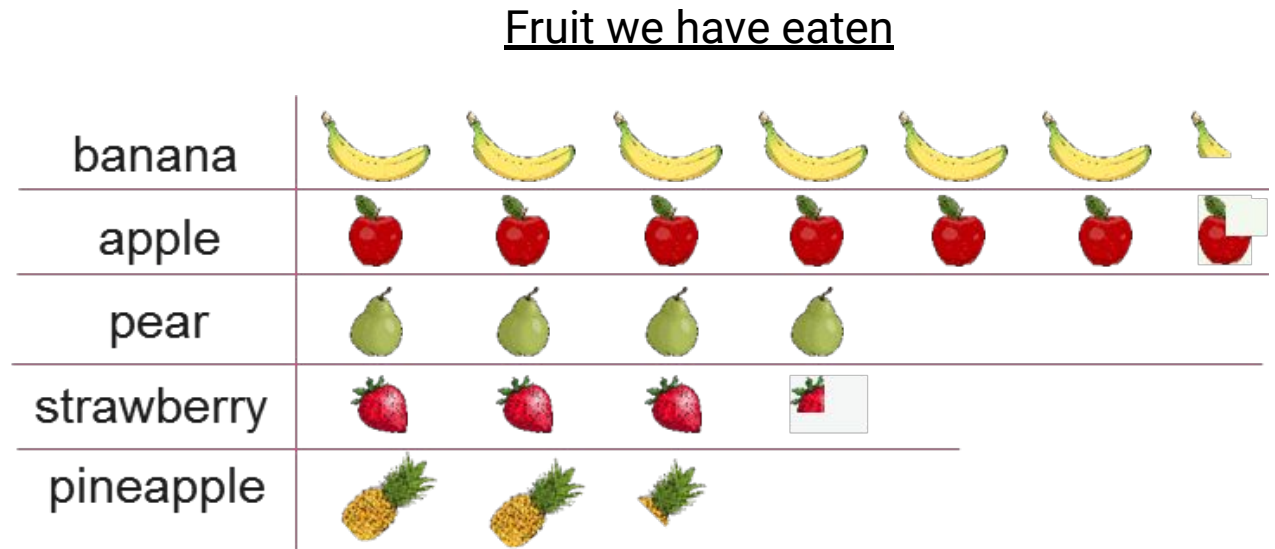
🍎 1 fruit = 4 children

Because of the question I asked, the pictogram cannot give me a definite answer. In this case, adding totals for each fruit will not give the total because some children may have eaten more than one type of fruit. As 27 children have eaten an apple, that is the smallest possible total. Adding all would given the maximum total (91).

1) Here is a graph of the temperature in a kitchen over a twelve hour period.

Temp °C

Time (24 hour clock)

a) What was the temperature at 0600 ?
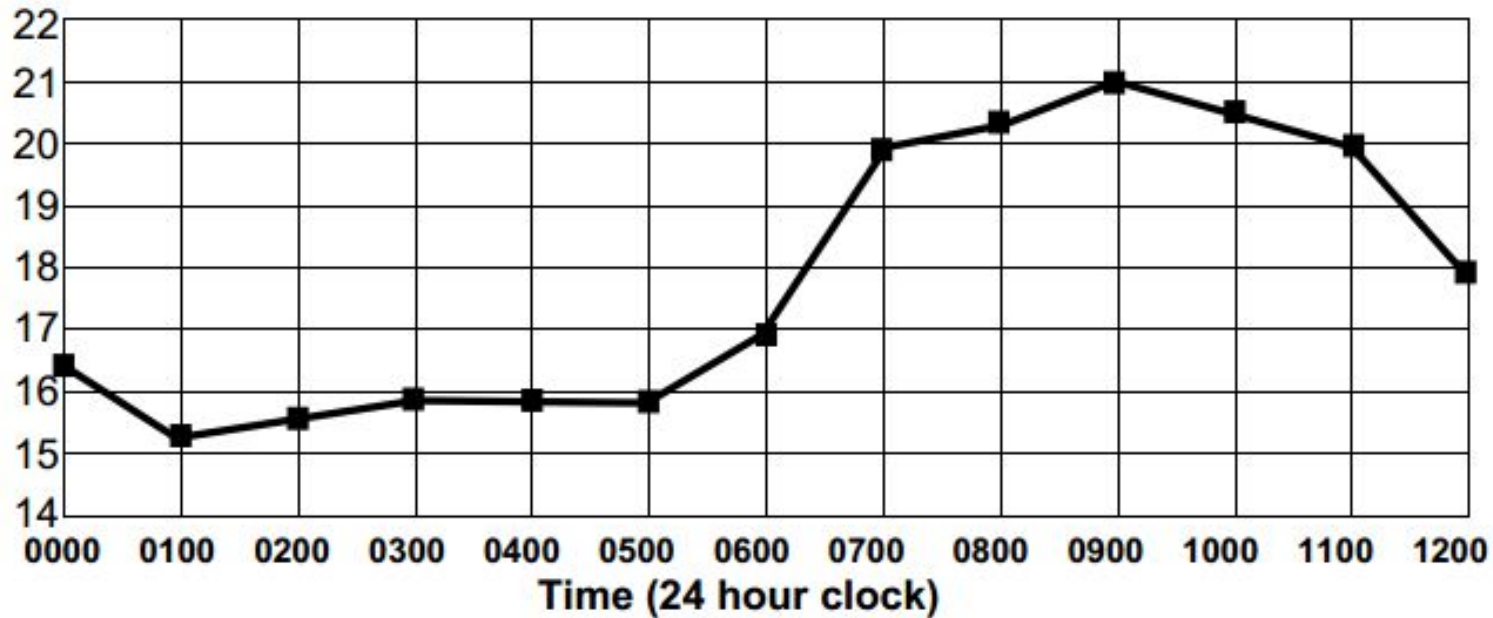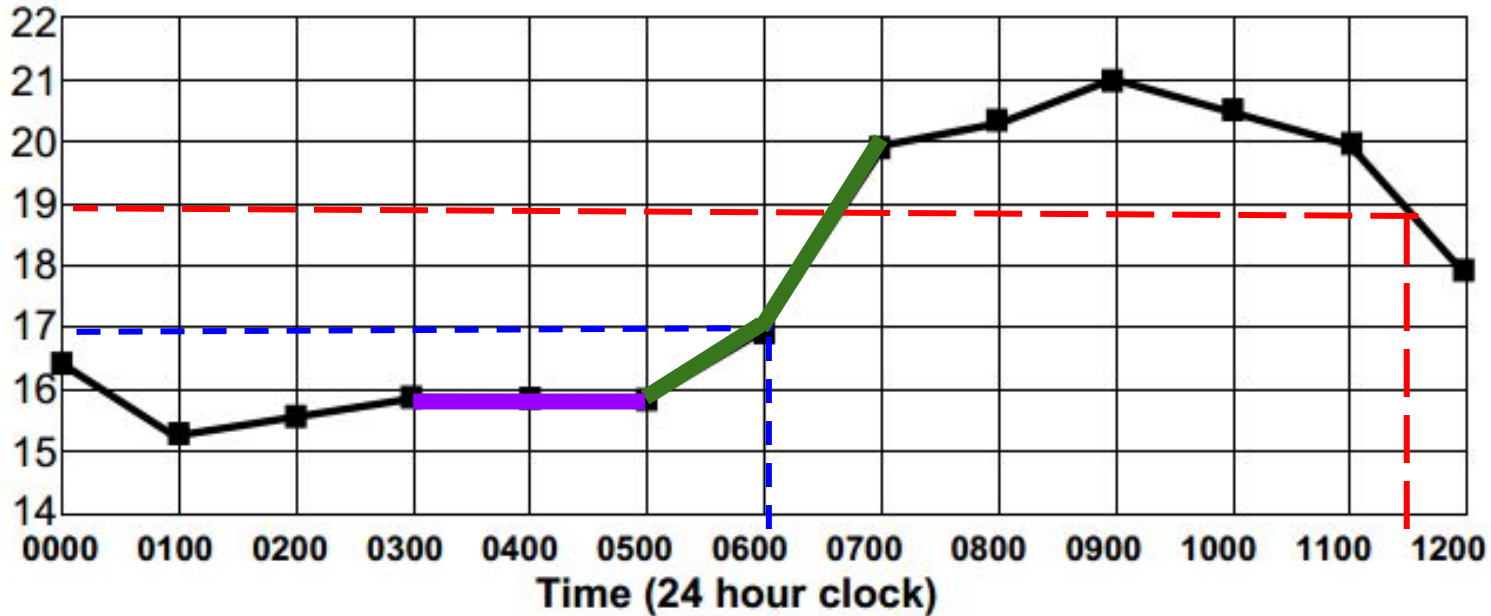
b) Estimate the temperature at 1130.

c) At what time do you think the central heating was switched on?

d) During which times did the temperature remain constant?

1) Here is a graph of the temperature in a kitchen over a twelve hour period.

Temp °C

Time (24 hour clock)

a) What was the temperature at 0600 ?

17 °C

b) Estimate the temperature at 1130.

19°C

c) At what time do you think the central heating was switched on?

05:00 or 06:00

d) During which times did the temperature remain constant?

03:00-05:00