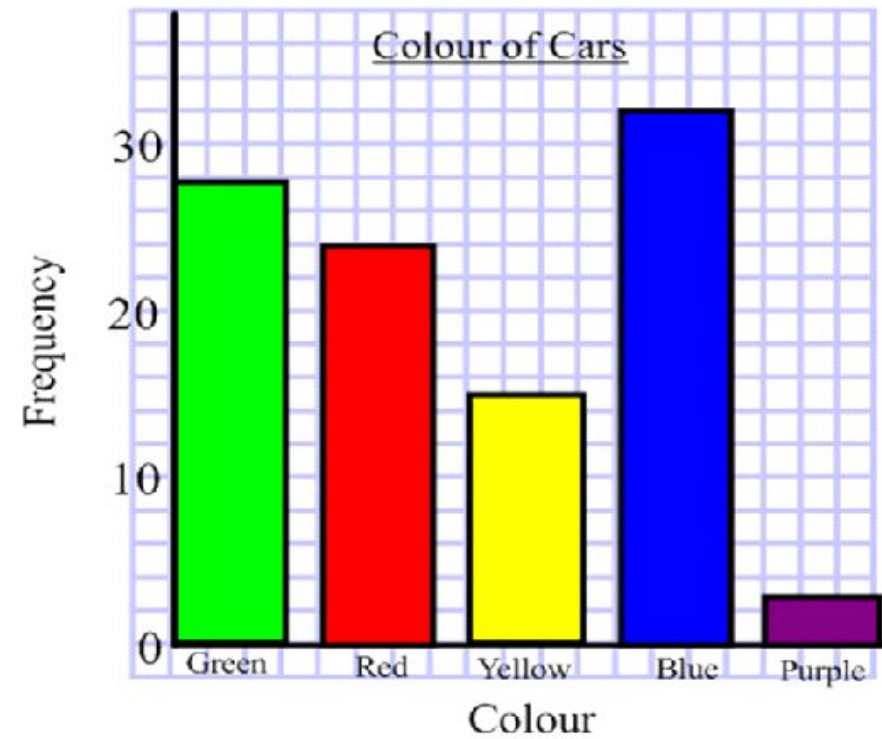
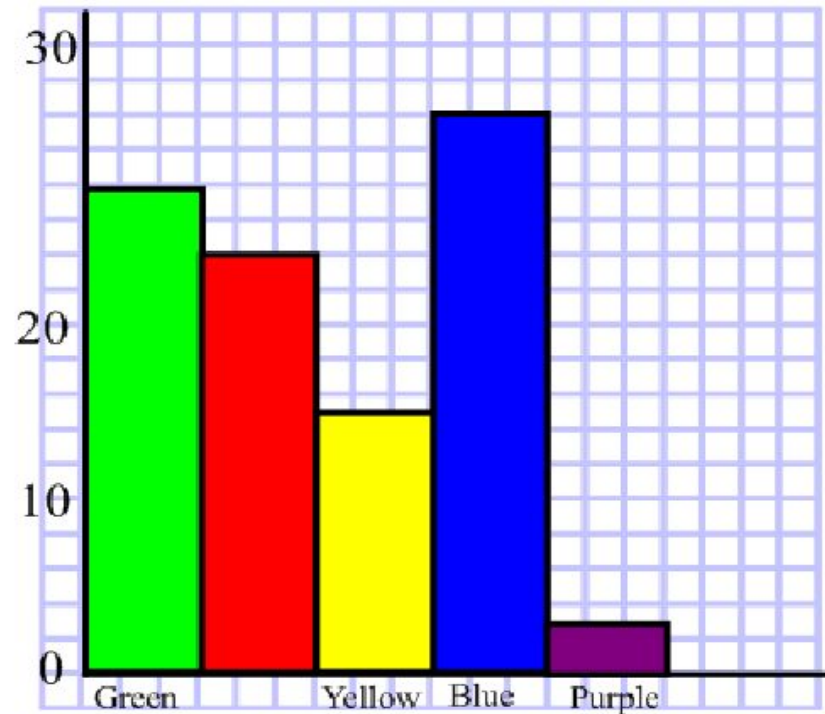


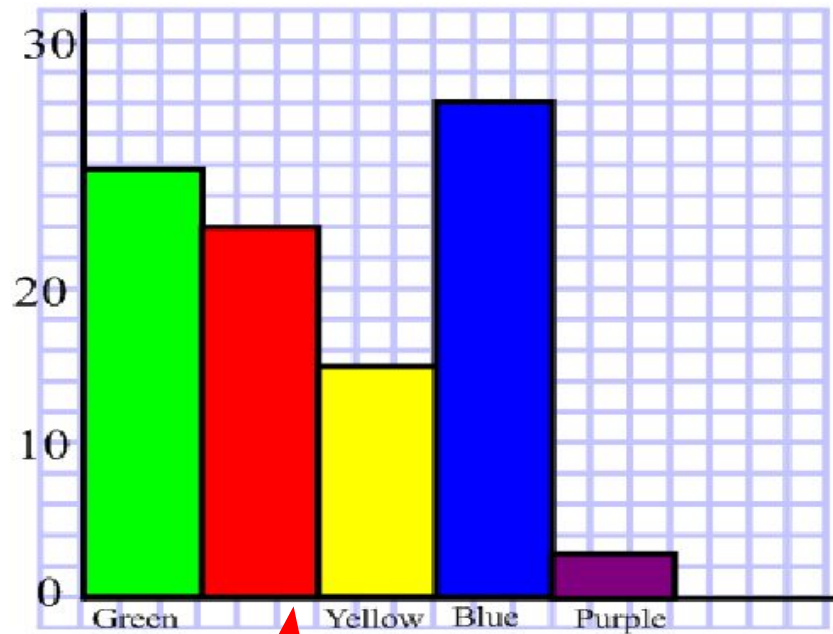
# Year 4 Week 9 Lesson 3

Can I interpret bar graphs?

Fast Five – which of these graphs is presented correctly? Explain why.



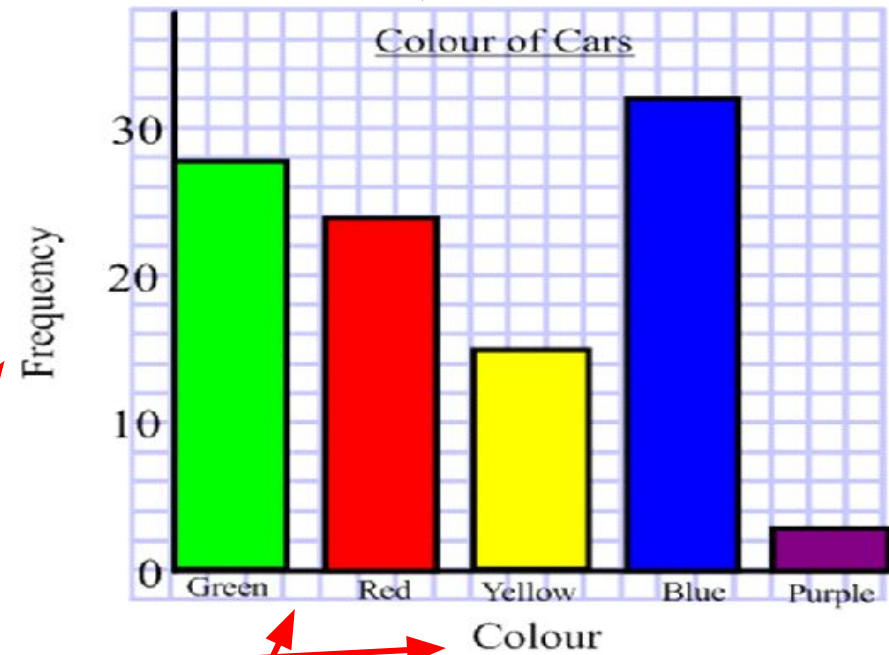
# Fast Five - Answers



Missing bar label.  
All bars should be  
labelled

Axes  
should  
be  
labelled

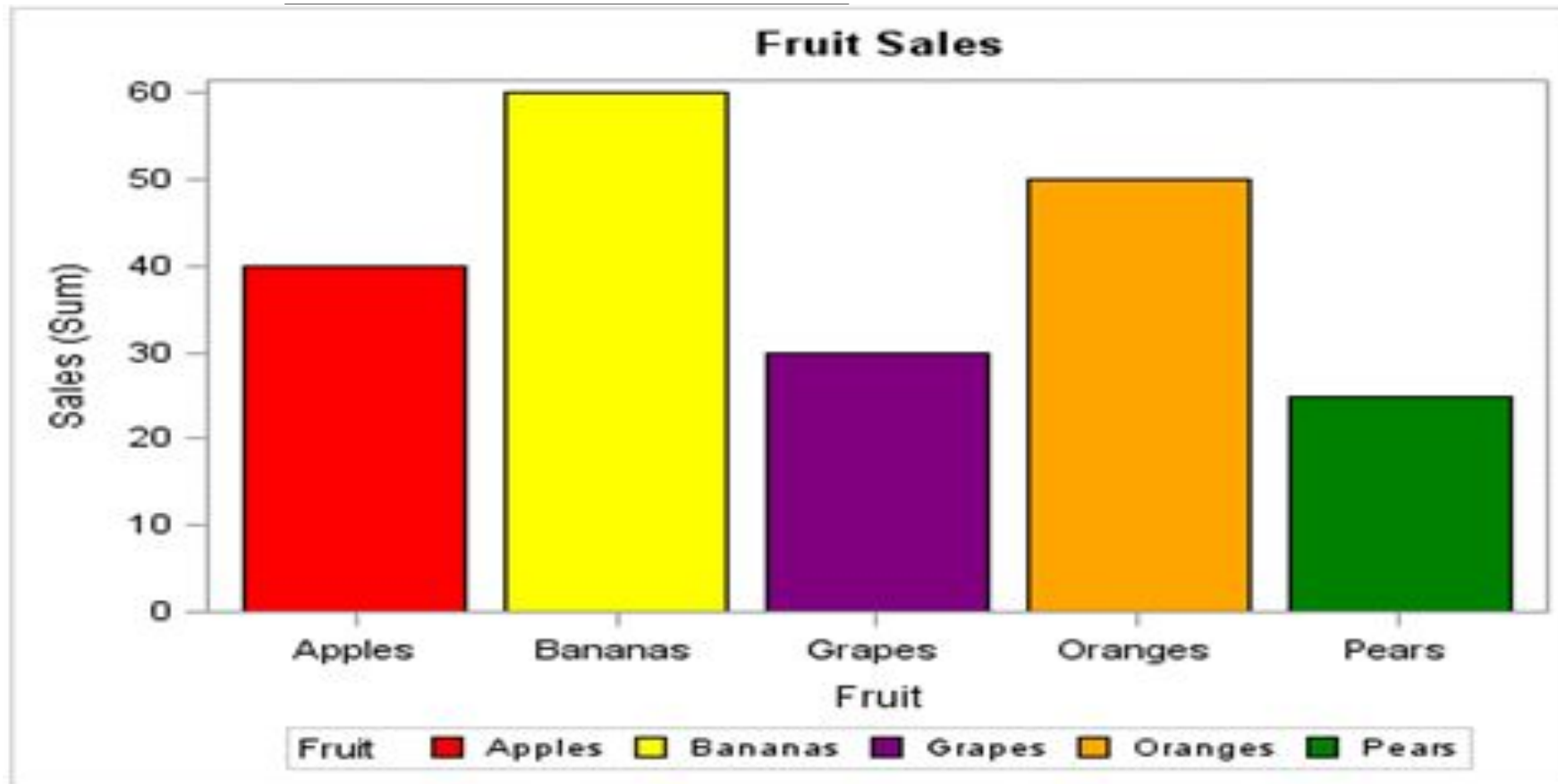
The graph should  
have a Title



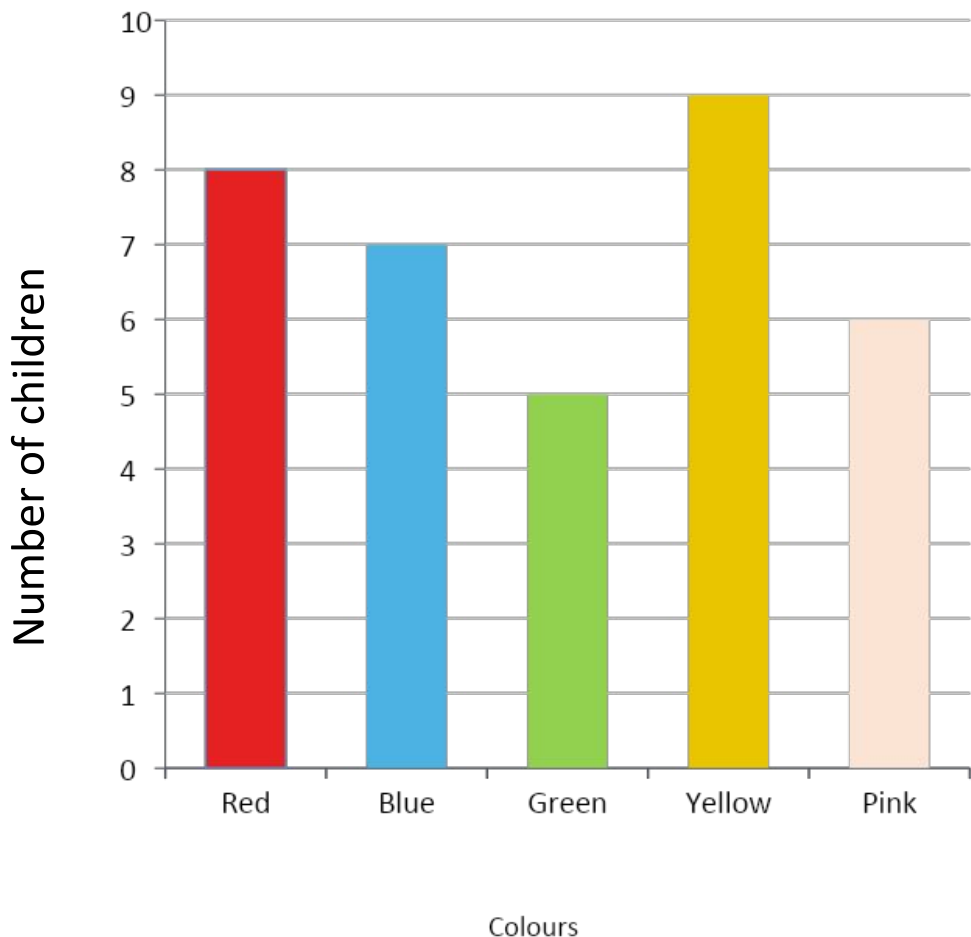
There should be  
spaces between  
the bars

# Can I interpret a bar graph?

- A bar graph or chart is a way of showing data so it can be easily viewed and understood.



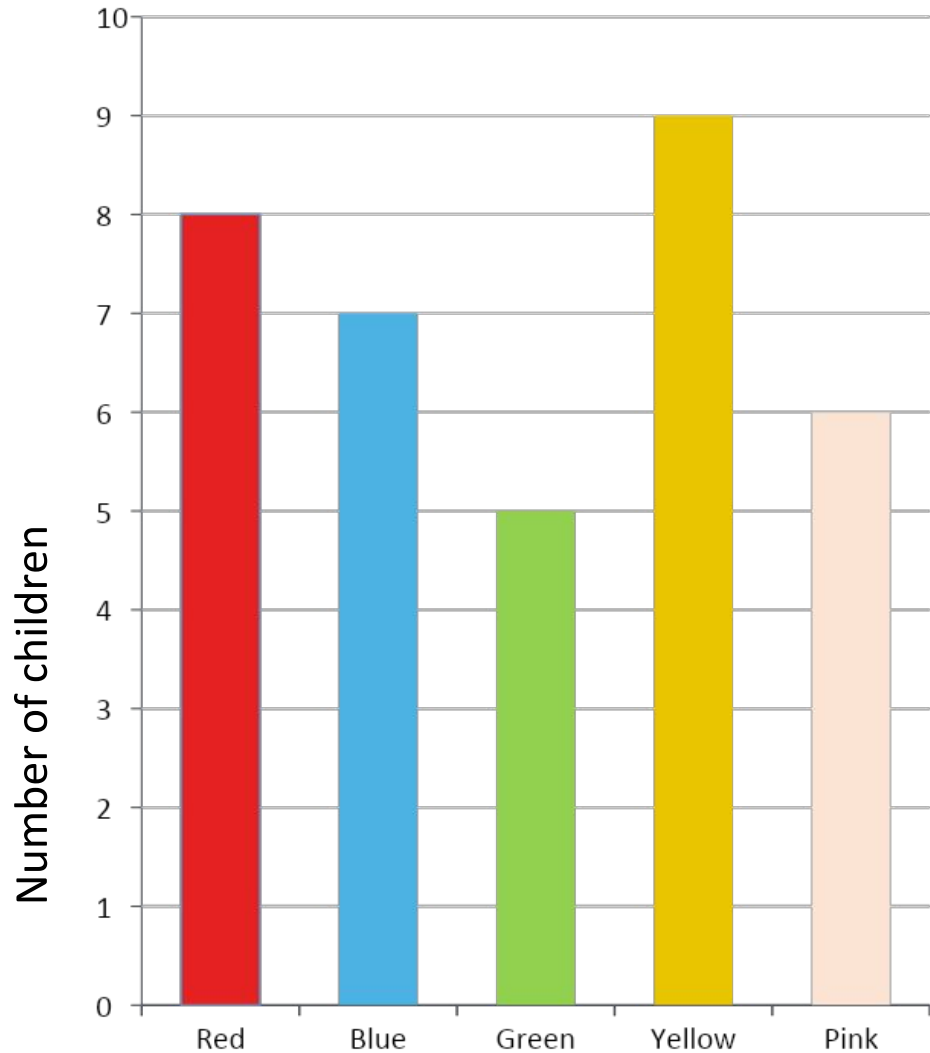
# Children's favourite colour



35 children were asked what their favourite colour was. This was put into a table. The information from this table is displayed on a bar graph. It makes it much quicker and easier to see the data.

Favourite colour	Number of children
Red	8
Blue	7
Green	5
Yellow	9
Pink	6

## Children's favourite colours

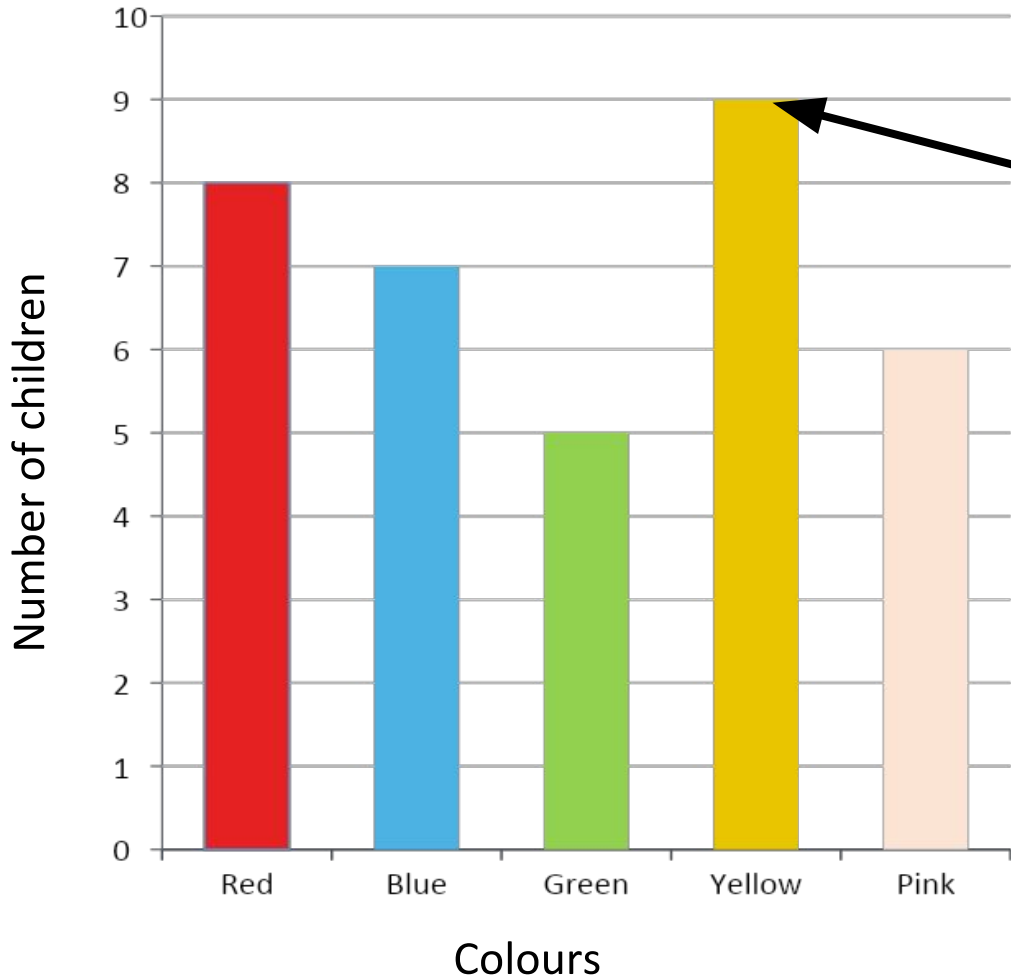


# Questions

1. What colour was the most popular?
2. How many people chose pink as their favourite colour?
3. What was the least favourite colour?
4. What was the second most popular colour?
5. What was the difference between the most popular and least popular colour?

# Answers

## Children's favourite colours

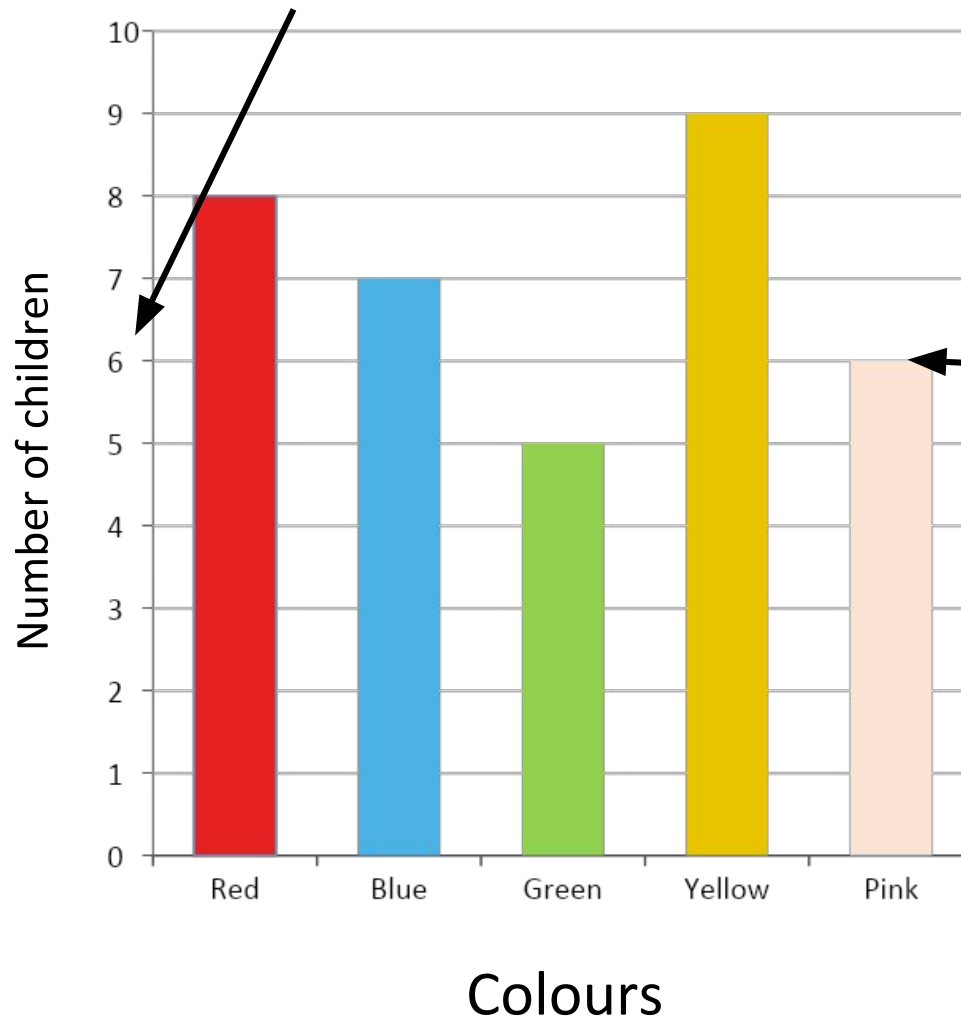


1. What colour was the most popular?

- The colour that was the most popular was yellow .
- It has the highest bar.

# Answers

## Children's favourite colours



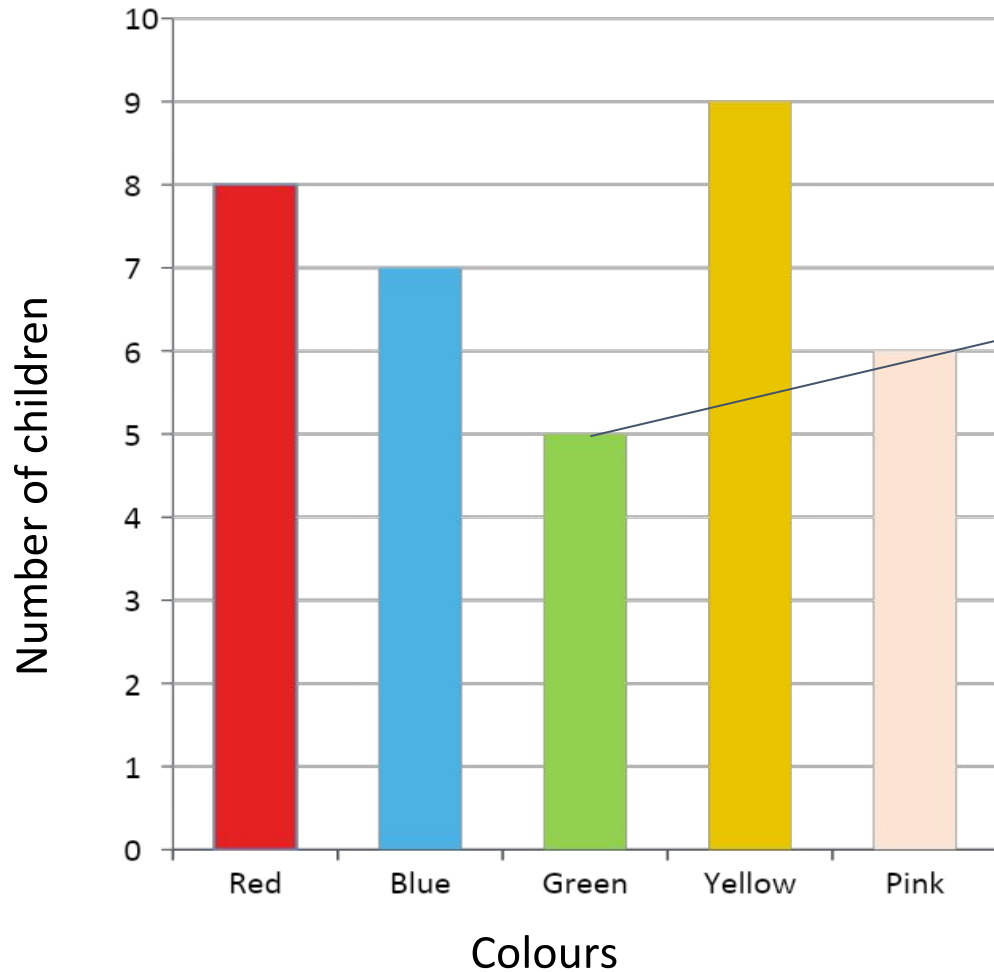
2. How many people chose pink as their favourite colour?

• 6 people chose pink as their favourite colour



# Answers

## Children's favourite colours

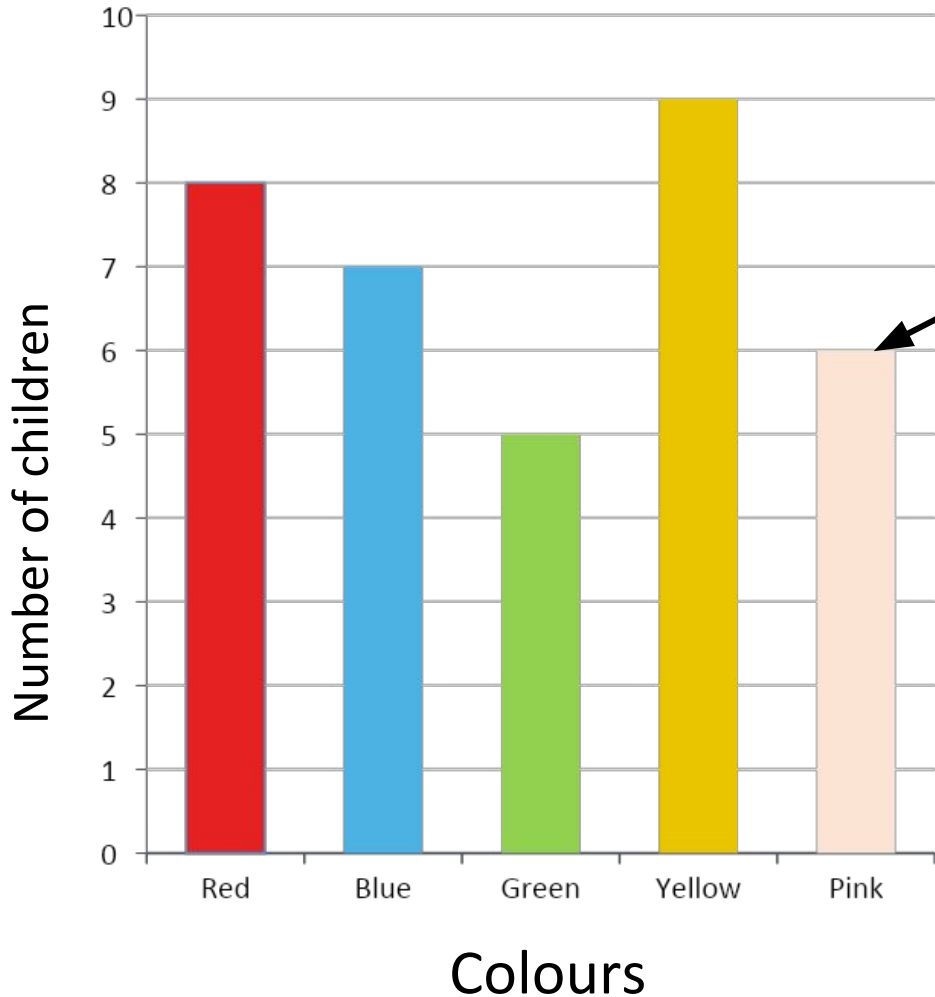


3. What was the least favourite colour?

- The colour which has the lowest bar is green with 5 children preferring it.

# Answers

## Children's favourite colours

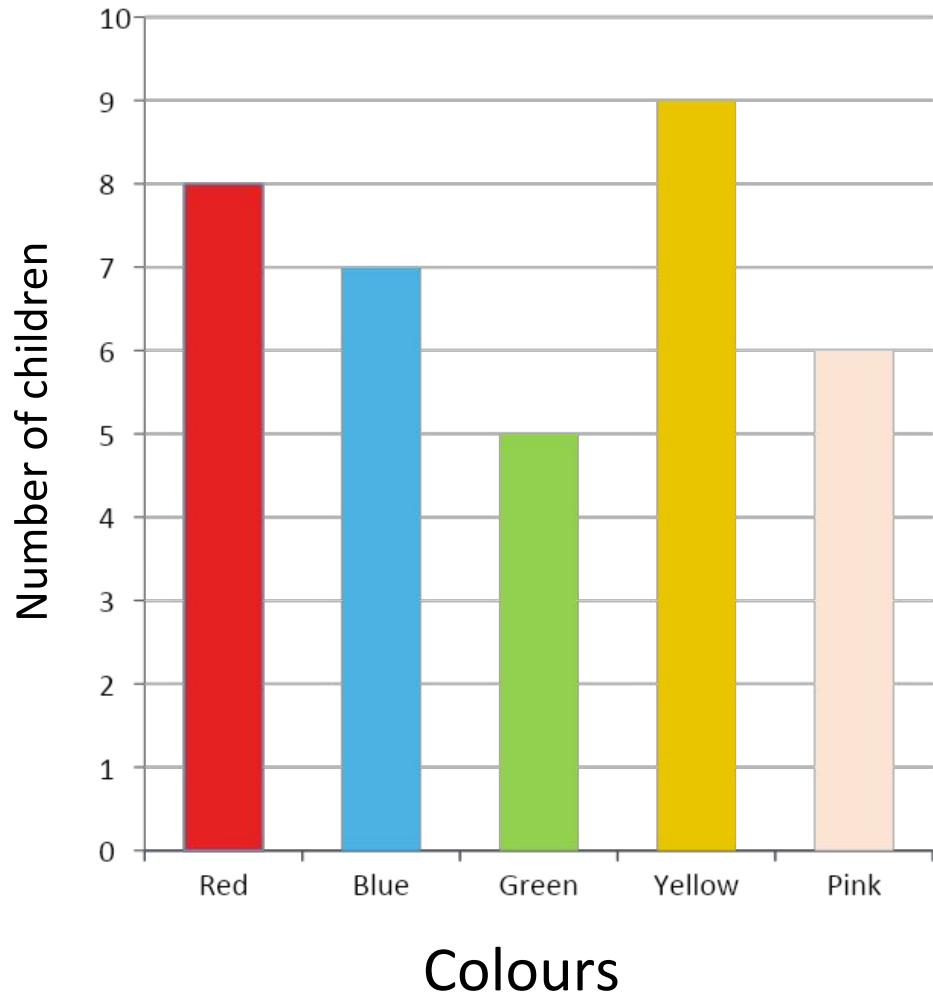


4. What was the second most popular colour?

• The colour with the second lowest bar is pink.

# Answers

## Children's favourite colours



5. What was the difference between the most popular and least popular colour?

Step one –

Most popular is yellow with 9 children

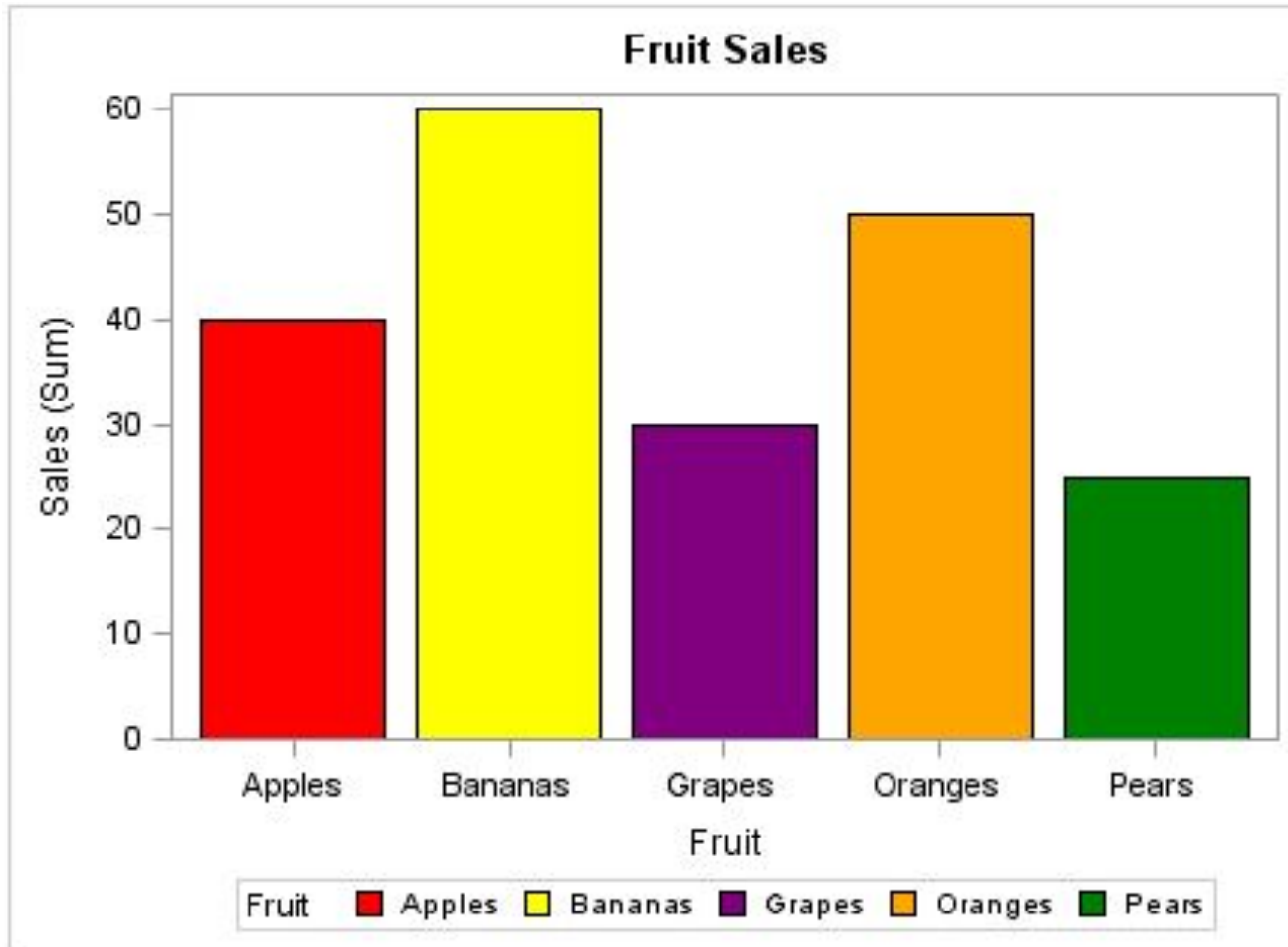
Least popular is green with 5 children

Step two –

Most popular – least popular = difference

$$9 - 5 = 4$$

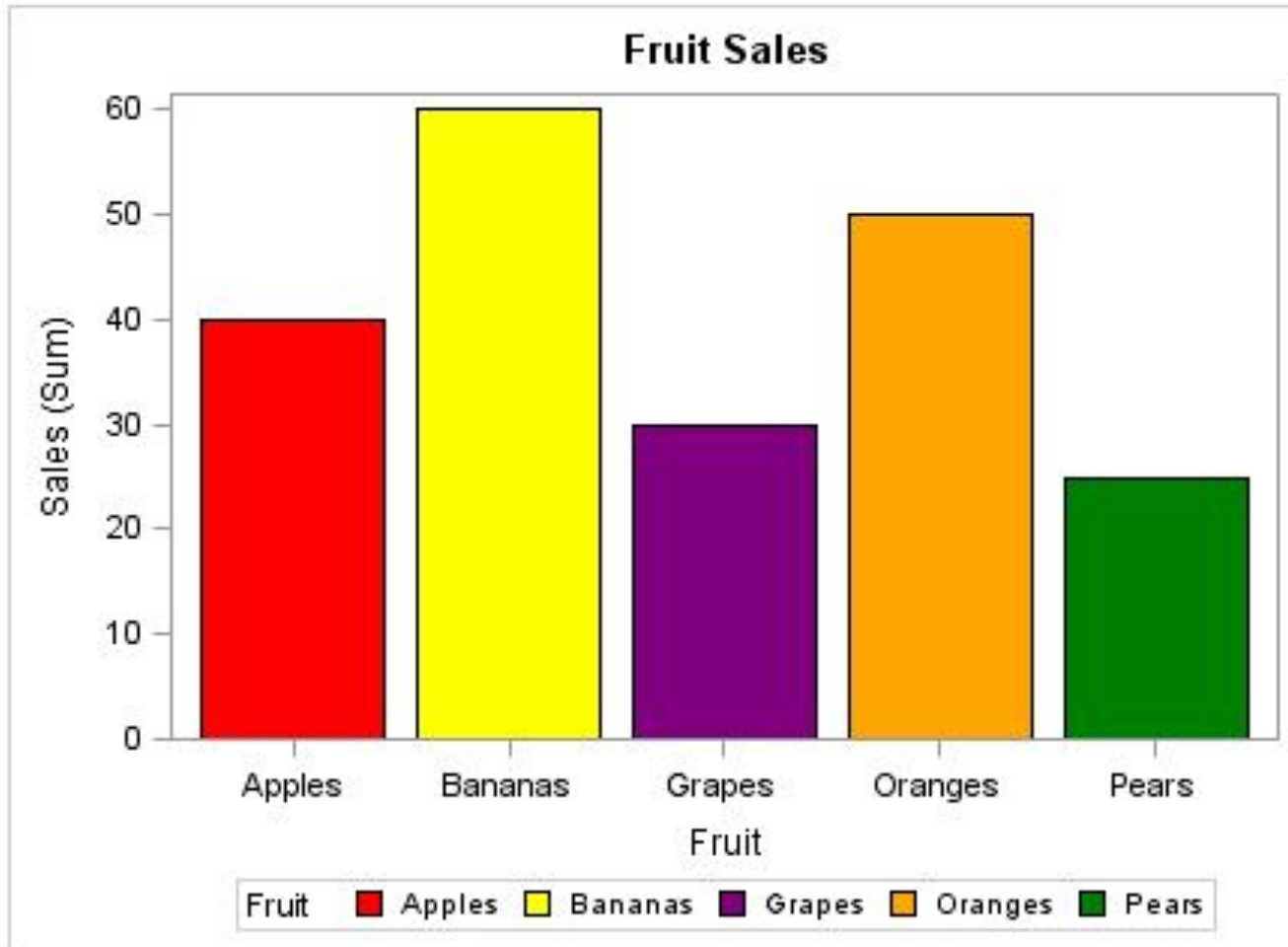
# When you interpret a bar graph you must always take care to look at the scale.



Can you think of one reason why this is a good bar graph?

Can you think of one bad thing about this bar graph?

When you interpret a bar graph you must always take care to look at the scale along the axis.



This graph is good because it can show large numbers of sales without making the graph too big.

However, this graph is more difficult to get exact readings when the bar is between values (for example between 20 and 30).

Can you tell what the sale of pears was exactly?

In this graph some of the bars reach half way between two lines.

On Monday the reaches halfway between 20 and 30.

The halfway point between 20 and 30 is **25**.

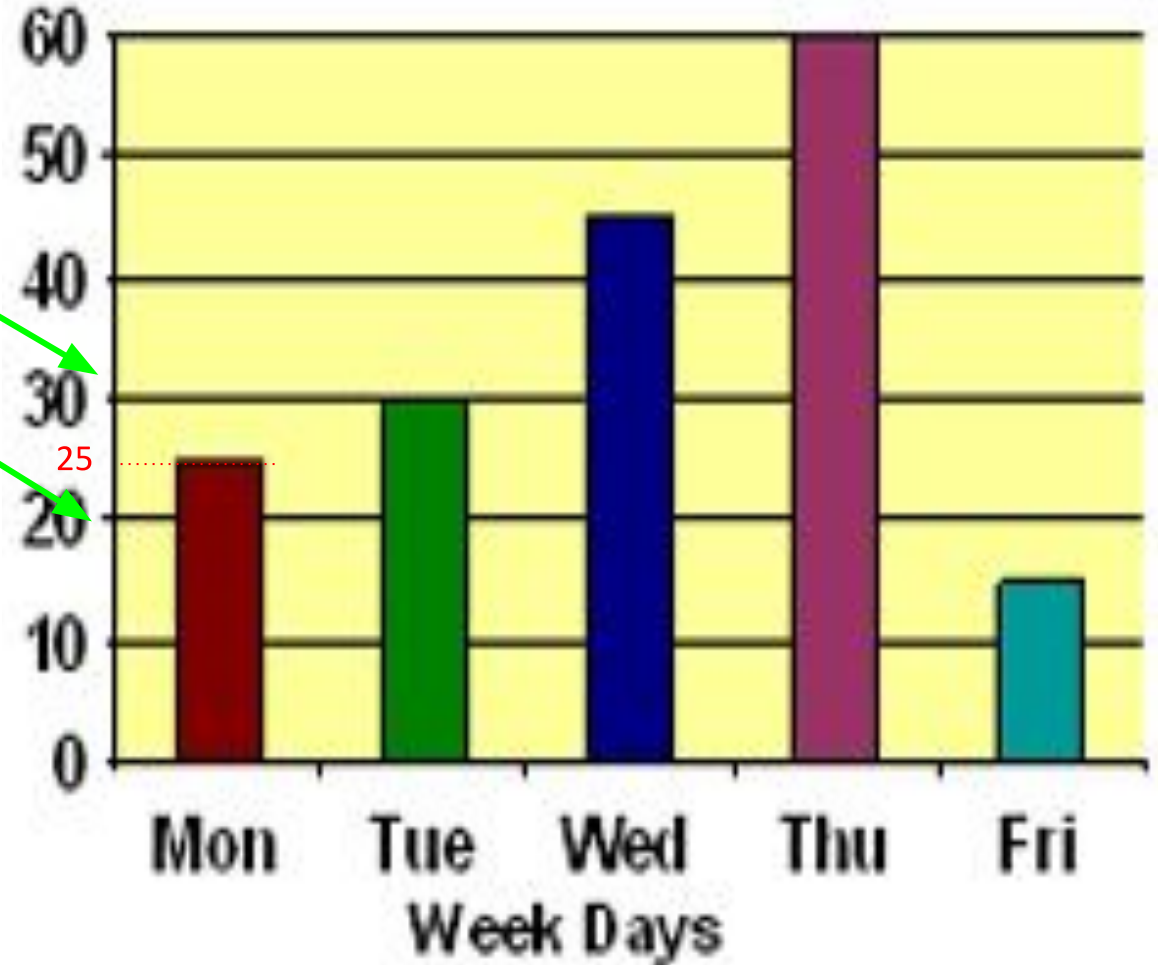
The scale goes up in 10s

Half of 10 is 5.

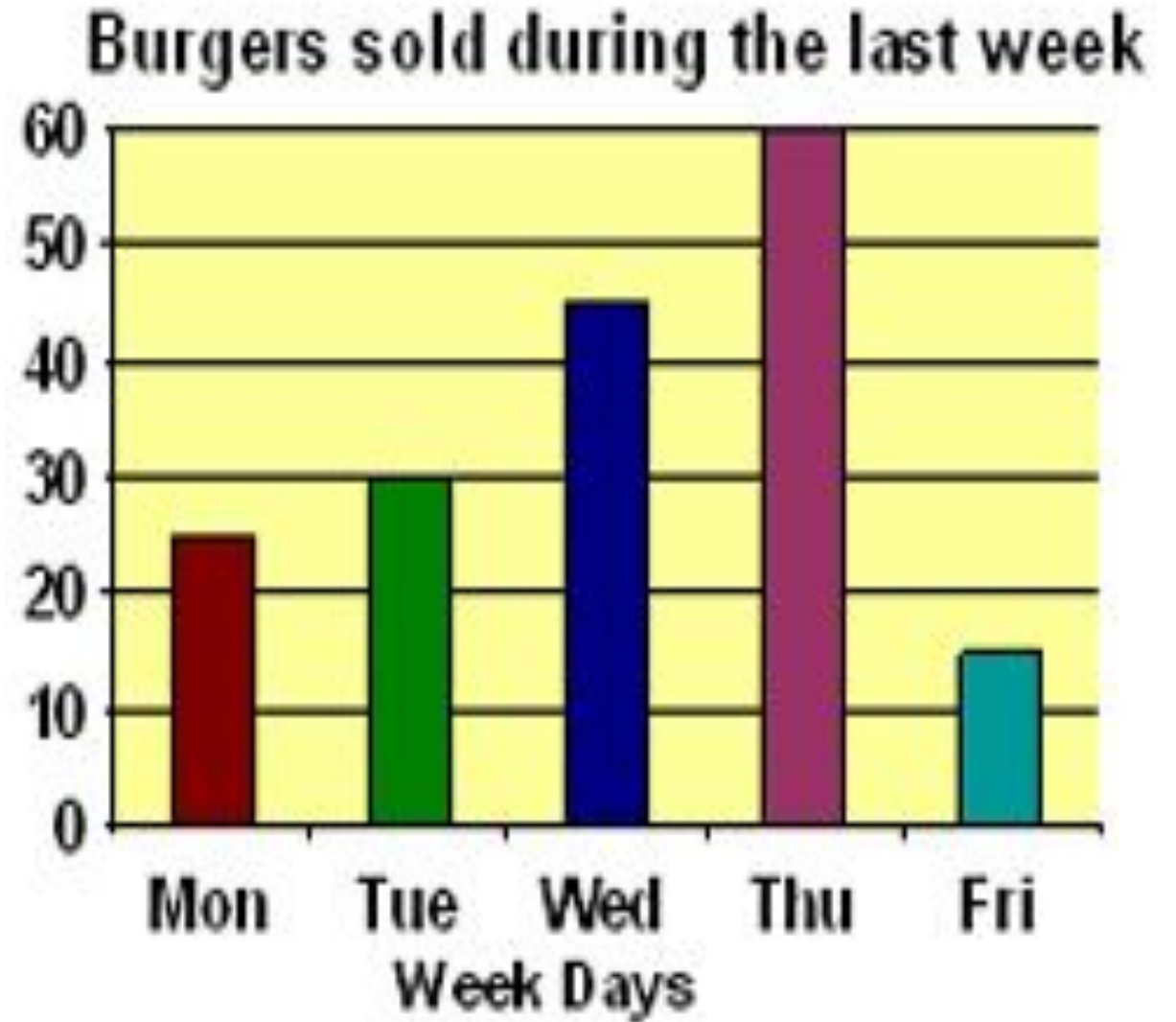
$$20 + 5 = 25$$

$$30 - 5 = 25.$$

### Burgers sold during the last week



What is the figure for Friday?



What is the figure for Friday?

This bar reaches halfway between 10 and 20.

Halfway between 10 and 20 is **15**.

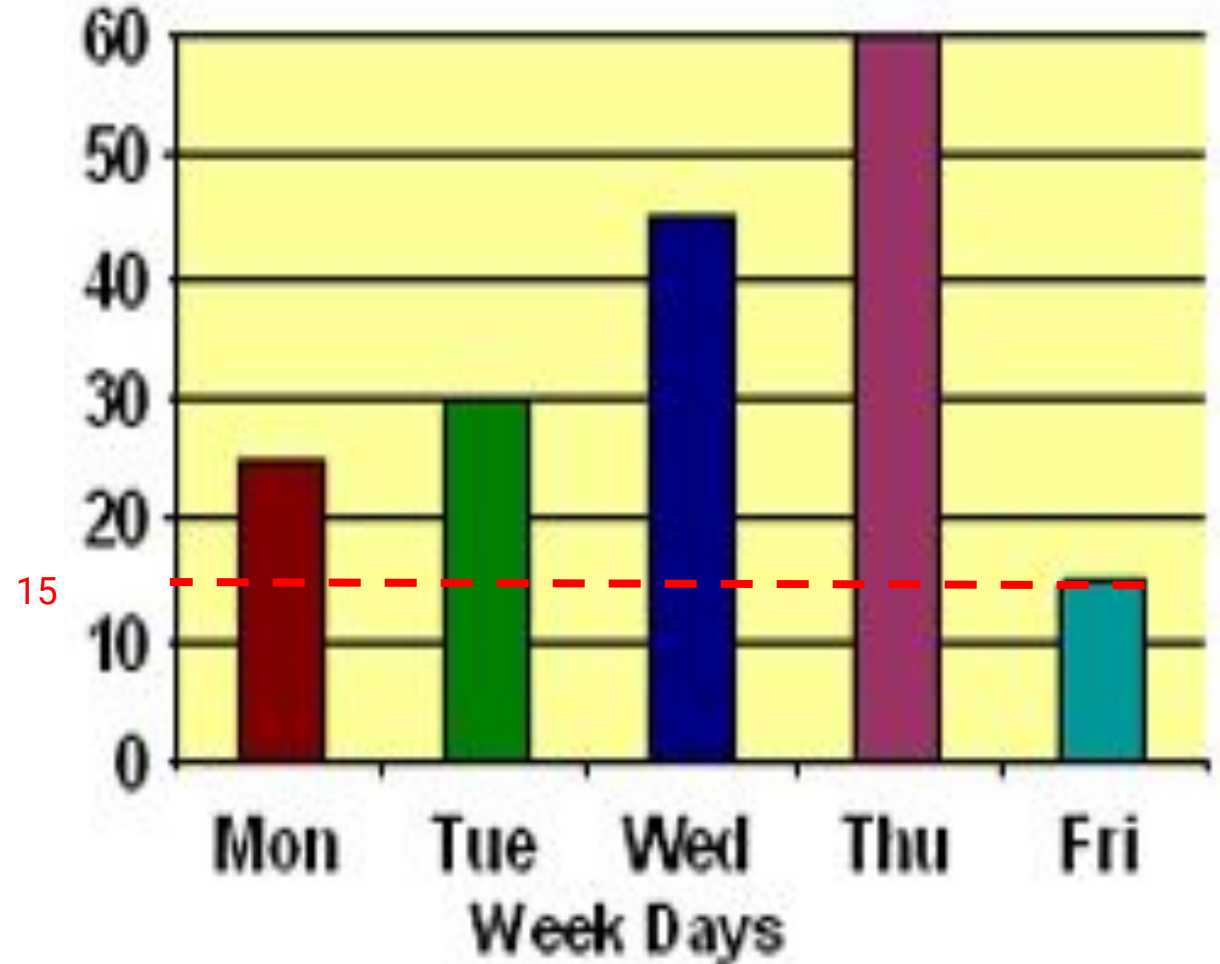
The scale goes up in 10s

Half of 10 is 5.

$$10 + 5 = 15$$

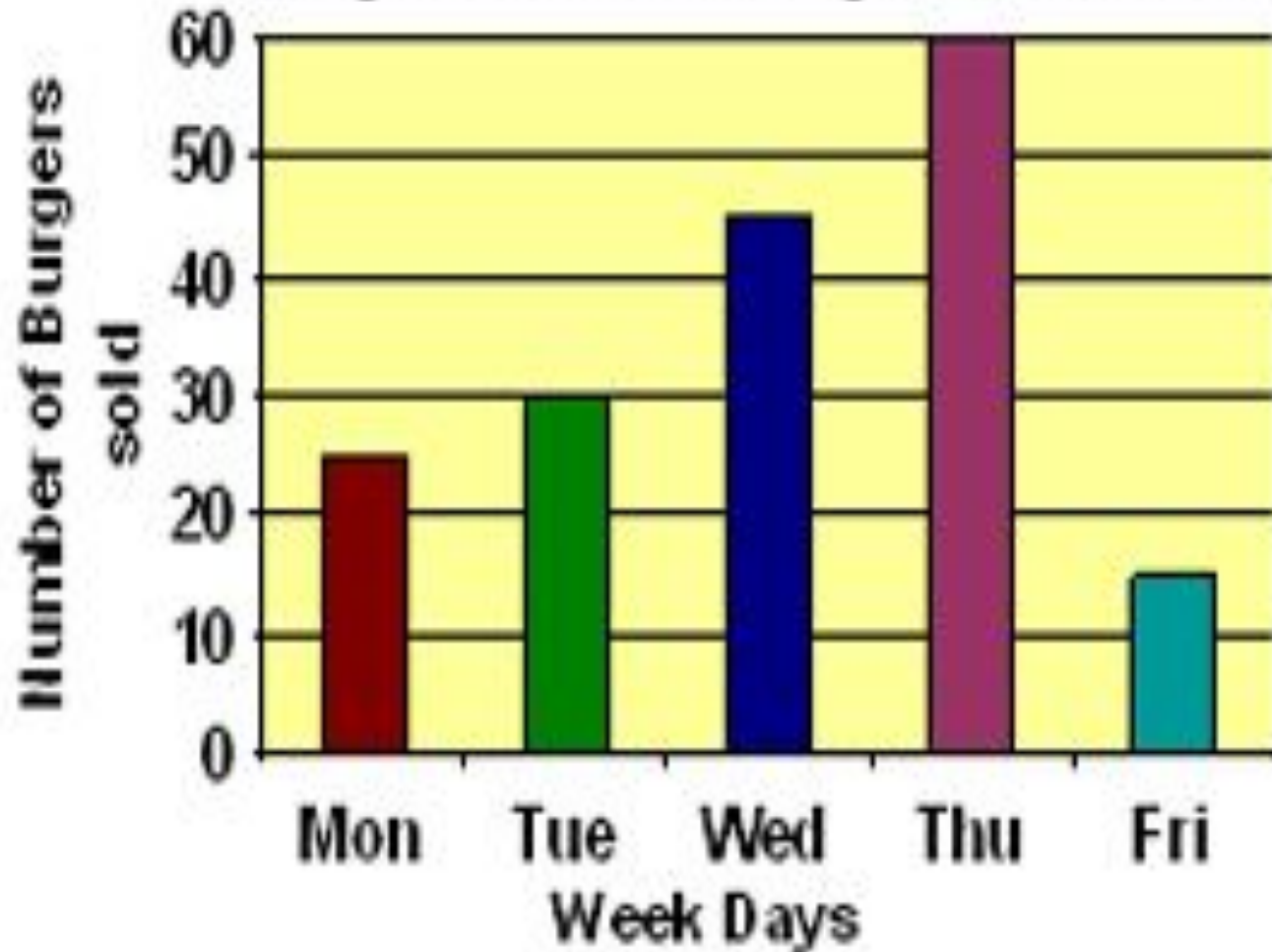
$$20 - 5 = 15$$

**Burgers sold during the last week**



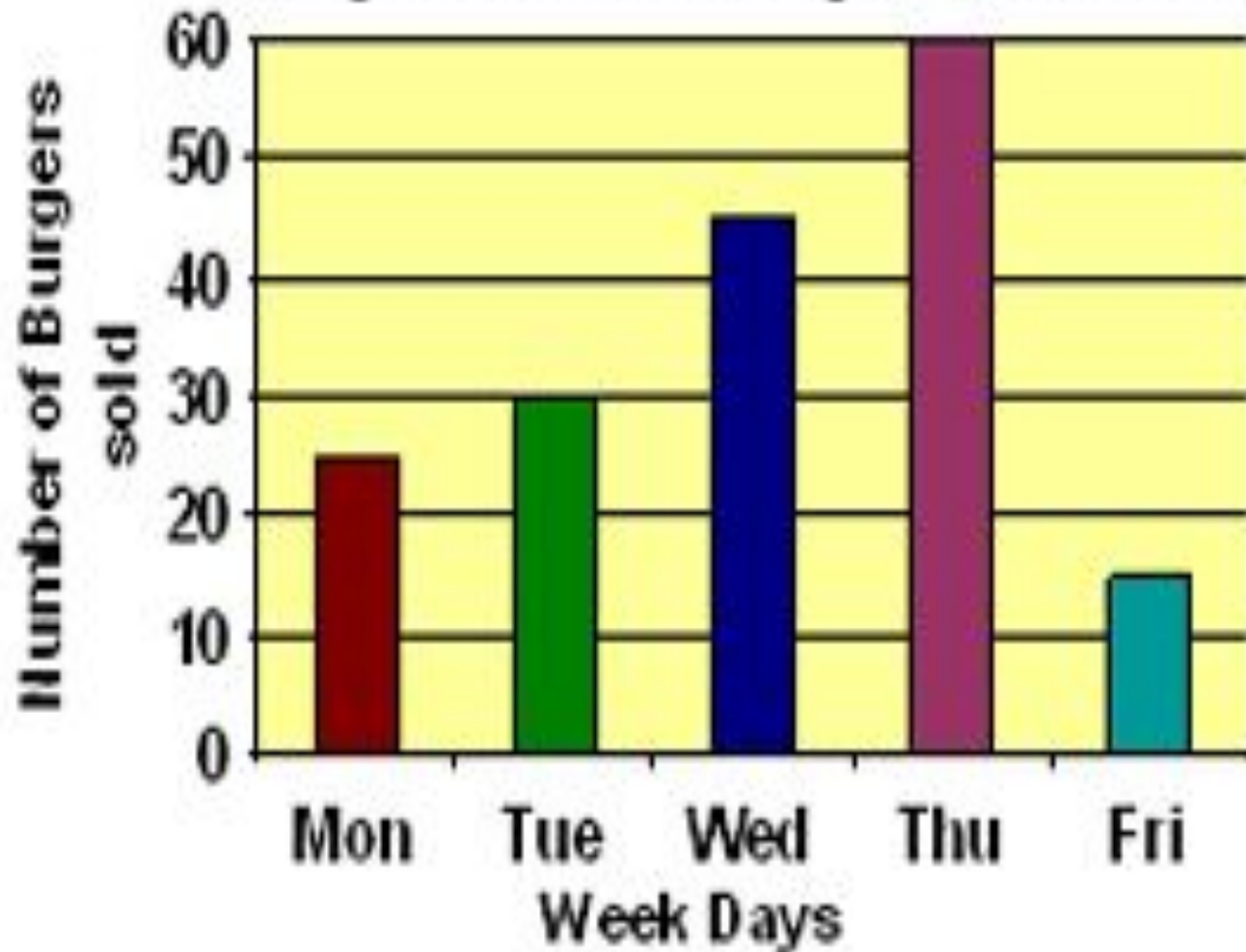


### Burgers sold during the last week



1. How many more burgers were bought on Wednesday than Friday?
2. Which two days sales figures added together equal Thursday's figure?

Burgers sold during the last week



1. How many more burgers were bought on Wednesday than Friday?

**Step one**

Wednesday = 45 burgers

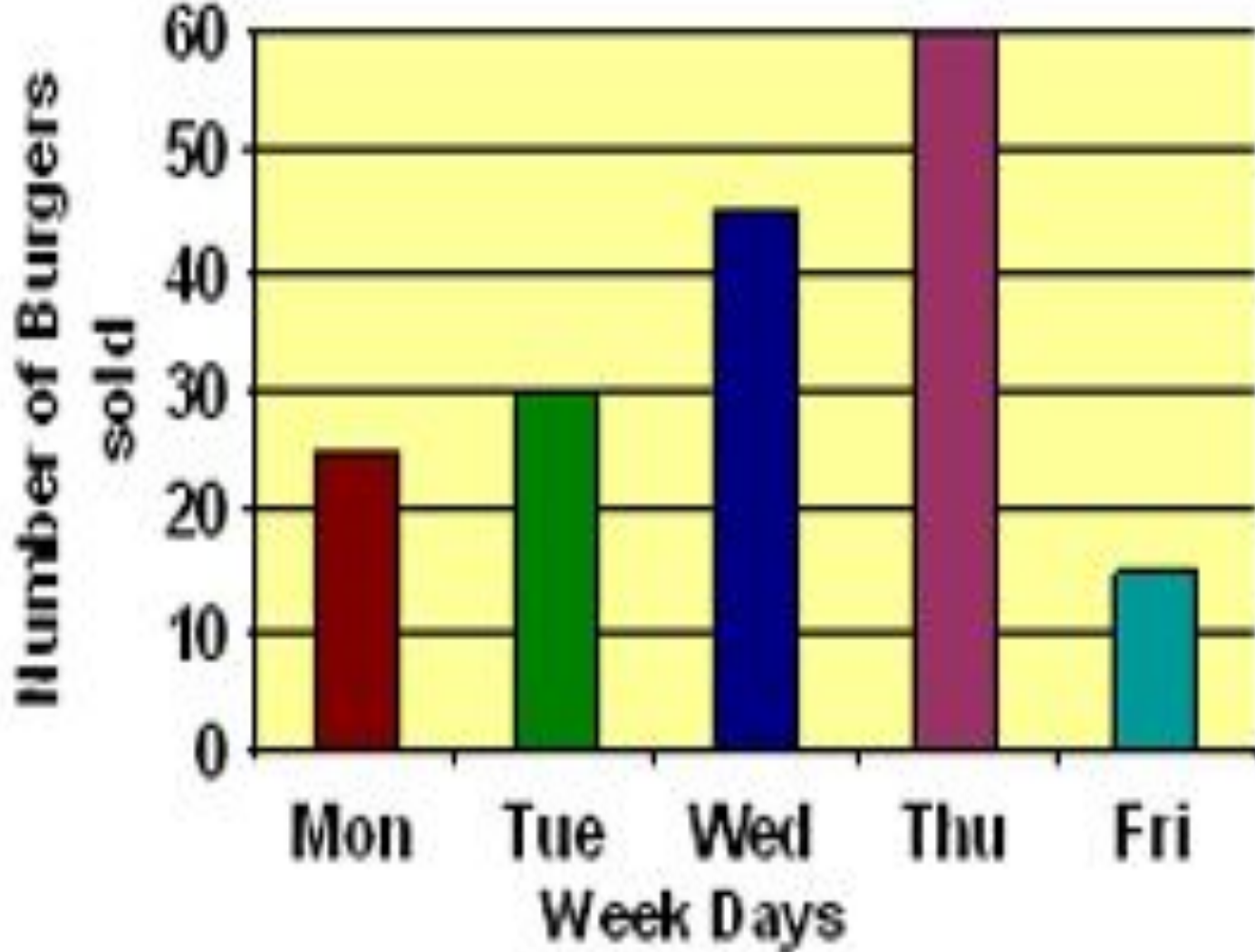
Friday = 15 burgers

**Step two**

Wednesday sales – Friday sales

$$45 - 15 = 30 \text{ more burgers}$$

## Burgers sold during the last week



2. Which two days sales figures added together equal Thursday's figure?

Thursday = 60 burgers sold

Wednesday = 45 burgers

Friday = 15 burgers

$45 + 15 = 60$  burgers

**So Wednesday and Friday**