

# Numeracy

## Example 1

Greg bought a new car for £11,500 +VAT.

VAT is charged at 20%.

What was the total price?

# Numeracy

## Example 2

An empty box has a weight of 300g. When twenty chocolate bars are put into it, it has a weight of 7300g.

What is the weight of one bar of chocolate?

# Numeracy

## Example 3

James is travelling to America.

The current exchange rate is £1 : \$1.34.

If James is exchanging £300, how many US dollars will he get?

# Numeracy

## Example 4

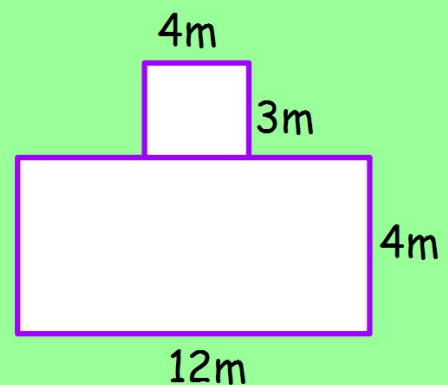
Complete the following train timetable

Depart	Arrive	Time Taken
1835		3h 30min
	1400	5h 10min

# Numeracy

## Example 5

A gardener is putting fencing round his garden. He has enough fencing to cover a distance of 45 metres.



Does he have enough fencing?

# Numeracy

## Example 6

A bus travels at a constant speed of 36mph for 1 hour and 15 minutes.

How far does it travel?

# Numeracy

## Example 7

Paul and Harry won money on a bet and are sharing it in the ratio of 3 : 5. They won £1400 in total.

Paul thinks he will receive £600.

Is he correct?

# Numeracy

## Example 8

The temperature at 8pm was  $7^{\circ}\text{C}$ .

The temperature at midnight was  $-3^{\circ}\text{C}$ .

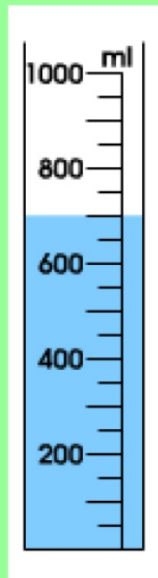
By how many degrees has the temperature dropped?



# Numeracy

## Example 9

How much more liquid is required to fill the test tube?



# Numeracy

## Example 10

Two shops are selling the same model of phone. They are offering these for sale in different deals.

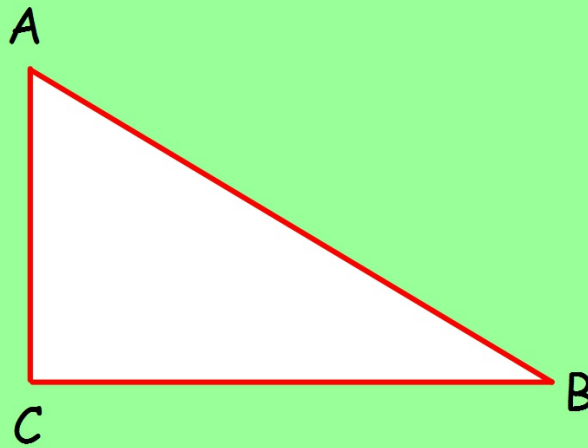
Shop A	Shop B
Deposit £100	Deposit of £480
6 payments of £150	6 payments of £80

Which shop has the cheaper deal?  
Justify your answer by calculation.

# Numeracy

## Example 11

- Measure the size of the longest length
- Measure the size of the angle ABC.



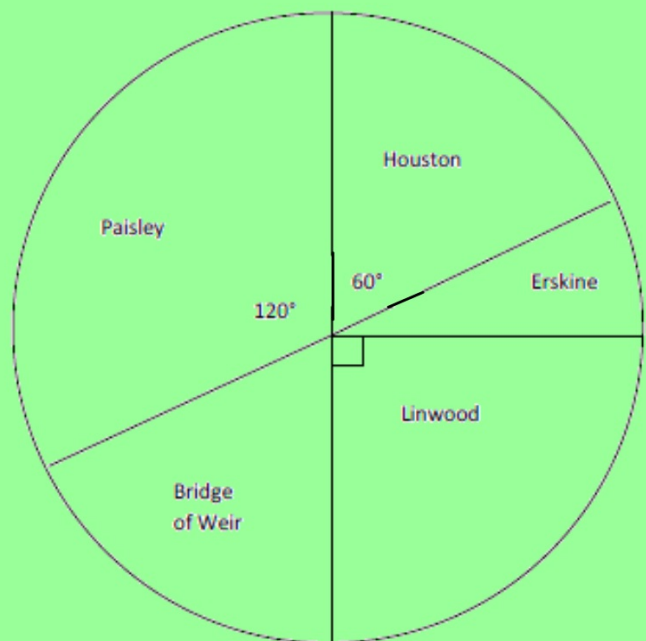
# Numeracy

## Example 12

A survey on where people are from was taken.

210 people were asked, the results are shown opposite.

Calculate how many people surveyed were from Paisley.



# Numeracy

## Example 13

The table below shows the amount of yearly interest a selection of banks will pay to a customer on savings.

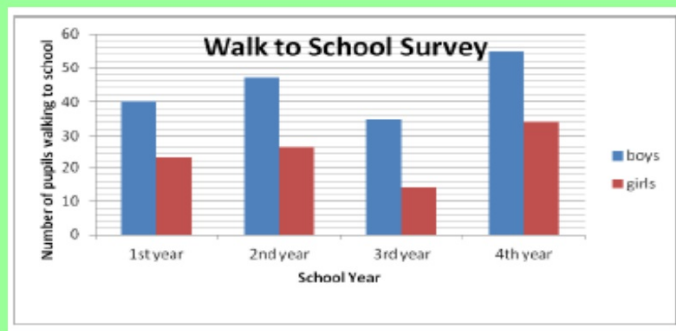
Bank	Less than £1000	Between £1000 and £5000	More than £5000
A	1%	1.1%	1.4%
B	1.2%	1.3%	1.5%
C	1.1%	1.4%	1.4%
D	1.2%	1.2%	1.3%

- For a saving of £2,500, which bank would pay the most interest?
- For a saving of £6,500 which bank would pay the most interest?

# Numeracy

## Example 14

A local school conducted a survey to establish the number of pupils who walked to school.



- How many S2 boys walked to school?
- Write a statement comparing the number of boys and girls who walk to school?

# Numeracy

## Example 15

Three mobile phone companies each have a contract available at the same price.

	Company A	Company B	Company C
Calls (minutes)	50	100	200
Texts	600	800	1000
Internet (Mb)	100	250	200

Scott is looking for a mobile phone contract which will give him 120 mins of calls, 700 texts and 150Mb of internet use.

Which company's plan would be best for him?

# Numeracy

## Example 16

Sophie has 2 bags filled with coloured counters.

Bag A contains 4 red, 6 blue and 10 green.

Bag B contains 6 red, 9 blue and 14 green.

In which bag would you have a better chance of selecting a red counter?



## Numeracy

Scott bought a new fridge freezer. The price was £450 + VAT.

VAT is charged at 20%.

What was the total price?

## Numeracy

An empty box has a weight of 300g.

When 30 bars of chocolate are placed inside it,  
it then weighs 10500g.

Find the weight of one bar of chocolate.

## Numeracy

Gavin is going on holiday to America.  
He exchanges £420 into US dollars.

The exchange rate is currently £1 : \$1.22.

How many US dollars will Gavin have?

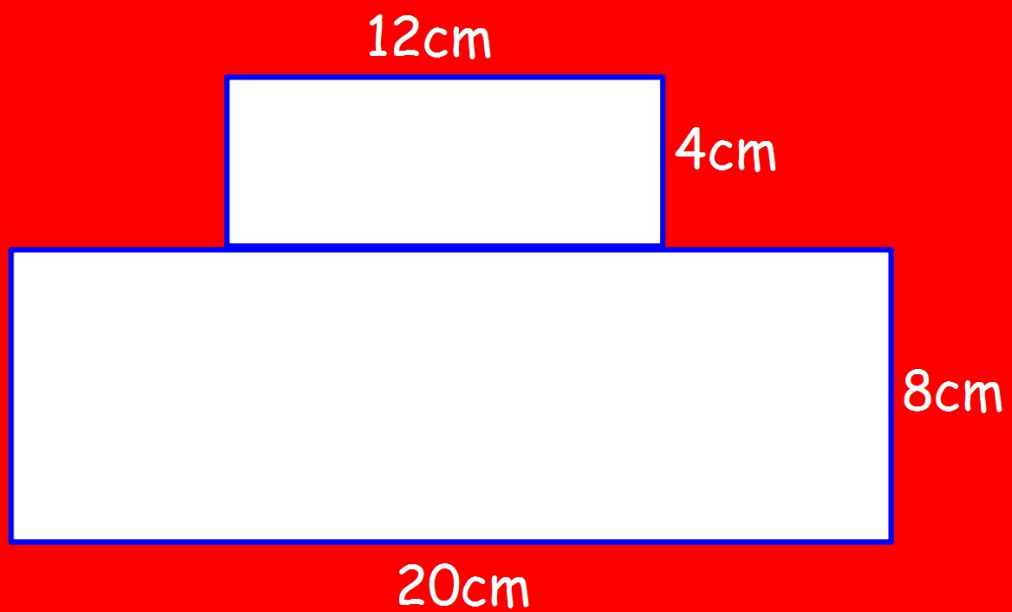
# Numeracy

Fill in the following train timetable.

Depart	Arrive	Time taken
0830		3h 15m
	2240	5h 30m

# Numeracy

Calculate the perimeter of the shape below.



## Numeracy

A train travels at a constant speed of 65mph for 2 hours and 30 minutes.

How far does it travel?

# Numeracy

Share £12,000 between the ratio 3 : 5

## Numeracy

The temperature at 5pm was  $8^{\circ}\text{C}$ .

The temperature at 2am was  $-1^{\circ}\text{C}$ .

By how many degrees has the temperature dropped?



## Numeracy

David bought a new TV. The price was £670 + VAT.

VAT is charged at 20%.

What was the total price?

## Numeracy

An empty box has a weight of 450g.  
When 25 cans of juice are placed inside it,  
it then weighs 10700g.

Find the weight of one can of juice.

## Numeracy

Sophie is going on holiday to Australia.  
He exchanges £800 into AUS dollars.

The exchange rate is currently £1 : \$0.52.

How many AUS dollars will Sophie have?

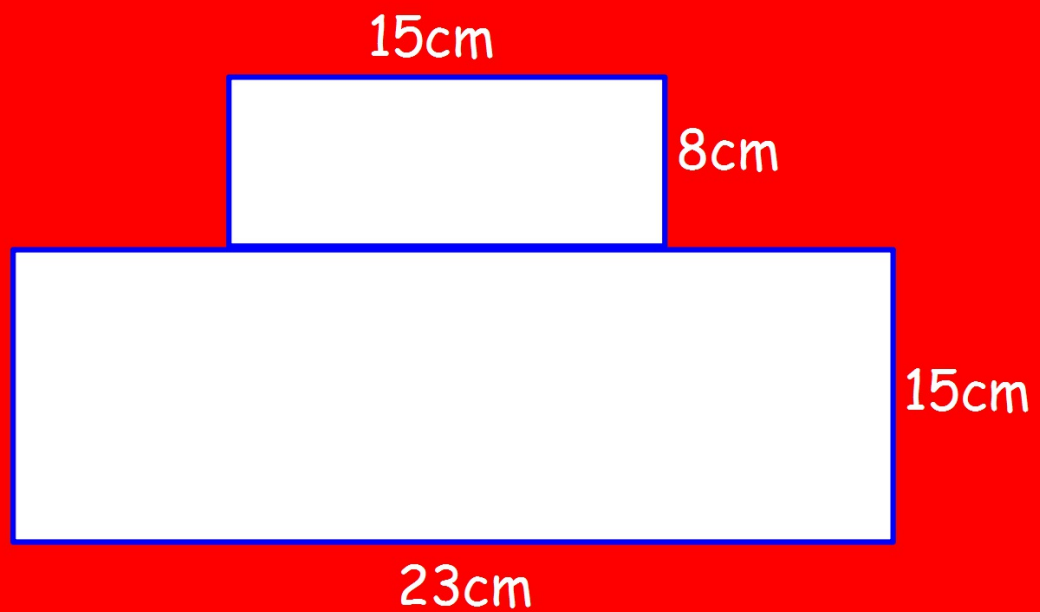
# Numeracy

Fill in the following train timetable.

Depart	Arrive	Time taken
1015		4h 50m
	1930	10h 45m

# Numeracy

Calculate the perimeter of the shape below.



## Numeracy

Andrew bought a new TV. The price was £450 + VAT.

VAT is charged at 20%.

What was the total price of the TV?

## Numeracy

An empty box weighs 300g. When 40 tennis balls are placed in it, it weighs 5100g.

Calculate the weight of one tennis ball.

## Numeracy

Beth is going on holiday to America.  
She exchanges £500 into US dollars.

The current exchange rate is £1 : \$1.29.

How many US dollars will Beth get?



## Numeracy

A car travels at a constant speed of 45 mph for 2 hours and 15 minutes.

How far does it travel?

## Numeracy

Harry and Tavon win a raffle prize of £320.  
They decided to split it in the ratio 3 : 5.

Harry thinks he will receive £150.

Is he correct?

Justify your answer.

# Numeracy

A liquid is cooled from  $5^{\circ}\text{C}$  to  $-13^{\circ}\text{C}$ .

By how many degrees has its temperature dropped?

## Numeracy

David has 2 bags of sweets.

In bag A, he has 4 red, 6 blue and 12 green sweets.

In bag B, he has 8 red, 14 blue and 20 green sweets.

Which bag has the better chance of picking a red sweet?