

Sign your name below :      Print your name below :

<input type="text"/>	<input type="text"/>
----------------------	----------------------

# Maths

---

## Initial Assessment

Marked By :

<input type="text"/>	
----------------------	---

Date :

<input type="text"/>	/	<input type="text"/>	/	<input type="text"/>
----------------------	---	----------------------	---	----------------------



This is not an exam and there is **no pass or fail mark**, but do answer as many questions as you can to the best of your ability.

The assessment is in **three sections**.

There will be questions that you will find easy and some that you may find too hard - that's all part of this assessment. Just tick the **"don't know"** box when it's too hard.

When complete - Right click - click on 'save as' from the menu and in the save dialogue add your surname and date of birth to the end of the file name. Send this file back to your tutor.

## Example Question

Q0

Topic Name

2 / 2 Marks

Enter the missing numbers in the number line.

Marking area

1 2 ? 4 5 ? 7



1 2 3 4 5 6 7

Answer area

Answer box

Don't know

Don't know tick box

Q1

Number

/ 2 Marks

How much does a carton of juice and a banana cost?

p

How much change would you get from £1?

p

Don't know



Q2

Number

/ 1 Mark

Fruit juice cartons can be bought in packs of 6.

How many cartons would there be in 3 packs?

Don't know



**Q3****Number****/ 1 Mark**

**How many children are there in the school if there are 5 classes each with 30 children in them?**

 **Don't know**

Q4

Number

/ 2 Marks

Match the following equivalent fractions.  
One has been done for you.

 Don't know

Q5

Number

/ 2 Marks

Round 26.37 to the nearest whole number.

Round 18.48 to one decimal place.

 Don't know

**Q6****Number**

/ 1 Mark

Put these temperatures in order from warmest (at the top) to coldest (at the bottom).

-4 °C     °C

3 °C     °C

-10 °C     °C

-1 °C     °C

0 °C     °C

 Don't know**Q7****Number**

/ 1 Mark

Work out the following.

$$12^2 - 12 \div 3 = \text{  }$$

 Don't know

Q8

Number

/ 2 Marks

The amounts shown are in millions.

Services	Year 1 (£m)	Year 2 (£m)
Services to Public	2.02	2.09
Court and Probation Services	0.50	0.55
Cultural, Environmental and Planning Services	66.35	67.02
Education Services	30.27	30.53
Highways, Roads and Transport Services	21.35	21.48
Local Authority Housing	19.90	20.10
Social Services	100.22	101.23

**What was the annual spending on Highways, Roads and Transport services in Year 2 to the nearest million pounds?**

£  million.

Don't know

**How much more was spent on Local Authority Housing than on Services to the Public in Year 2?**

£  million.

Don't know



**Q9****Number****/ 3 Marks**

I need to mix mineral spirits in with the varnish I am using. The mineral spirits need to be the equivalent of 25% of the varnish.

**What ratio of spirits to varnish am I using?**

 :  **Don't know**

**If I use 240ml of varnish, what quantity of mineral spirits will I need?**

 ml **Don't know**

**Robinson's tapestries all measure 1.5m x 1m wide. Express the proportion of the tapestries' height to width using whole numbers.**

 :  **Don't know**

# Number

## Section complete

**Marks for this section**

---

**15**



## New Section - MSS ( Measures, Shape & Space )

Q1

### Measures, Shape & Space

/ 1 Mark

My date of birth is 12.04.86. **Tick my correct birthday.**

 12th April

 4th April

 4th December

 12th December

 Don't know


Q2

### Measures, Shape & Space

/ 1 Mark

Choose the best unit for measuring the following.

**Match the goods on the left to the units on the right.**

 Don't know

Apples

Wood

Necklace

Spices

Orange squash

**Q3****Measures, Shape & Space****/ 2 Marks**

Pair the measurements on the left to their matching measurement on the right.

 **Don't know**
50cm 500g 1000ml 100cm **Q4****Measures, Shape & Space****/ 1 Mark**

How much would a cup of tea, a jacket potato with cheese, and a bun cost?

£

 **Don't know**

	Price
Tea	£1.25
Coffee	£1.60
Soft drinks	£1.50
Sandwiches	£2.50
Jacket potatoes	£1.99
Jacket potatoes with filling	£2.75
Buns	89p

Q5

## Measures, Shape &amp; Space

/ 2 Marks

What is the area of my lawn if it measures  
6m x 5.2m?

 m<sup>2</sup>

If I want to put a fence around all 4 sides of my lawn, what length of  
fencing do I need to buy?

 m Don't know

**Q6****Measures, Shape & Space**

/ 1 Mark

George prefers to navigate his journeys with a road atlas, which has a scale of 1cm : 10km.

**How far does he have to travel if the distance on the map is 4.5cm?**

km

Don't know

**Q7****Measures, Shape & space**

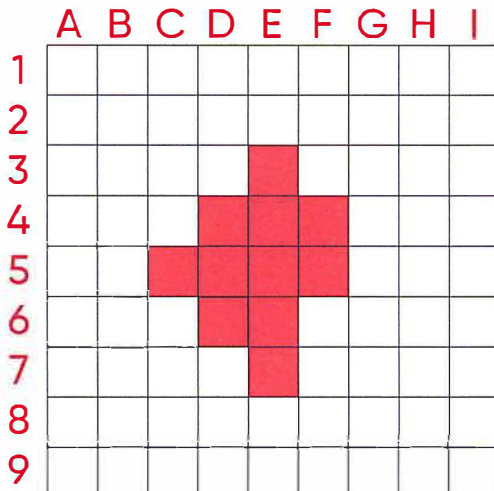
/ 1 Mark

Study the diagram.

**Which two squares would need to be coloured in to give a shape with two lines of symmetry?**

and

Don't know



Q8

## Measures, Shape &amp; Space

/ 2 Marks

Hint: Remember that the radius is half of the diameter.

**Work out the circumference and area of the circular piece of glass needed for the top of a display cabinet which has a diameter of 1.8m.**

Use  $\pi = 3.14$

Circumference =

m

Area =

m<sup>2</sup>

**Give both answers to 2 decimal places.**

Don't know

Q9

## Measures, Shape &amp; Space

/ 1 Mark

One of the angles in an isosceles triangle is  $74^\circ$

**What could the other two angles be?**

$^\circ$  and   $^\circ$

**Don't know**

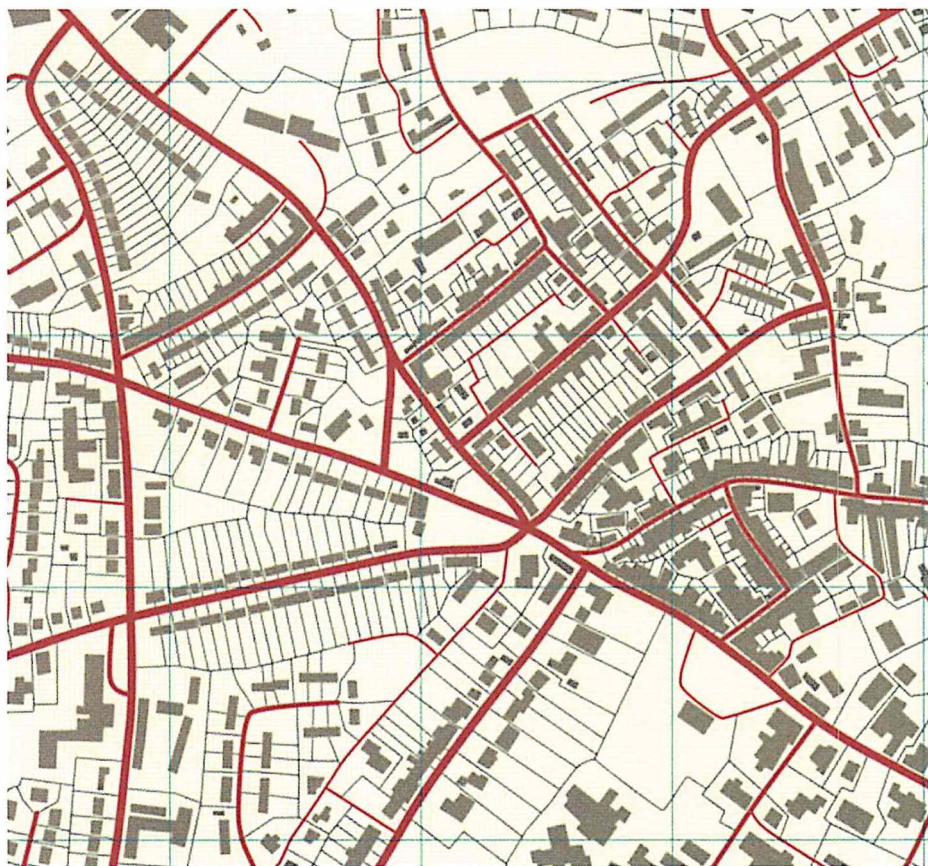


**Q10****Measures, Shape & Space****/ 1 Mark**

The scale on a 1 : 50 000 Ordnance Survey map indicates that 2 cm on the map = 1 km on the ground.

**How many centimetres would 1km be represented by on a 1 : 25 000 scale map?**

cm

 Don't know

# MSS

## Section complete

### Marks for this section

---

**13**



# New Section - Handling Data

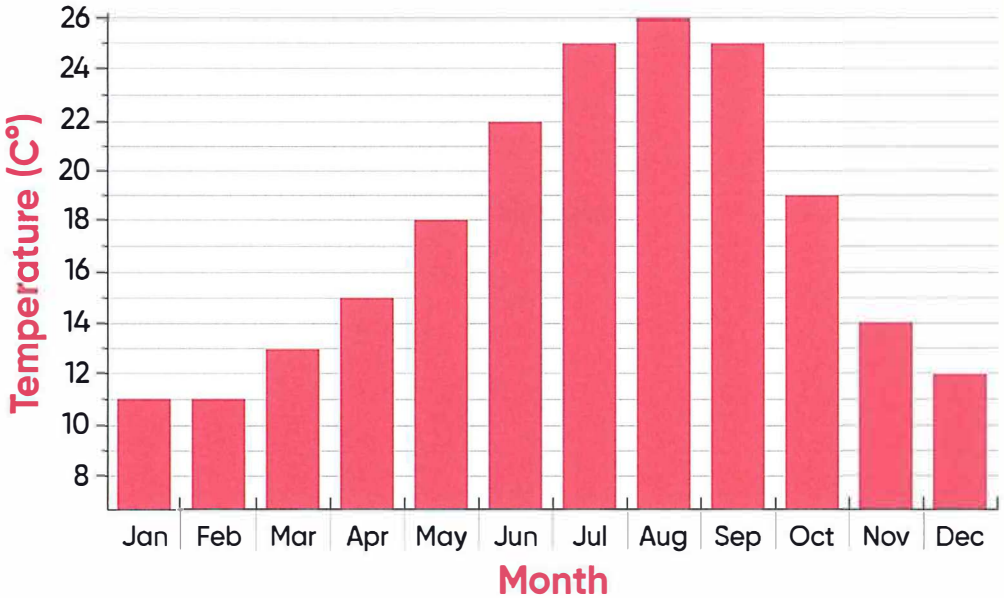
Q1

## Handling Data

/ 3 Marks

The following bar chart shows the average monthly temperature in Alicante, Spain.

**Study the chart and answer the questions.**



What is the average temperature in August?  °C

What month has a temperature of 18° C?

Which 2 months are the coldest?

and

Don't know

**Q2**

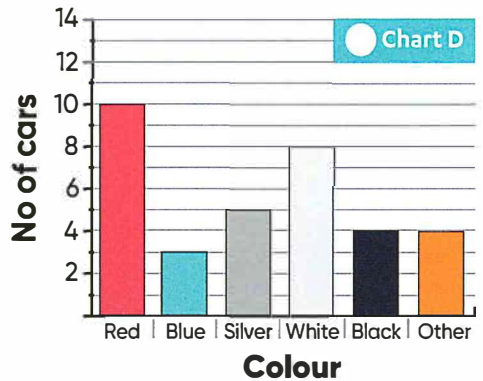
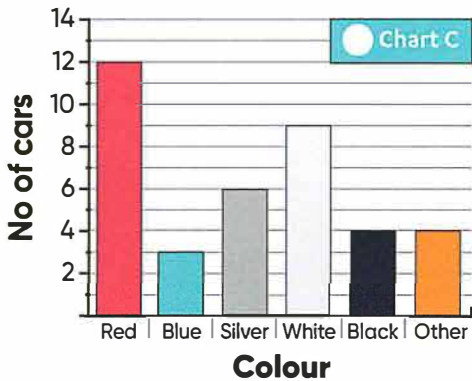
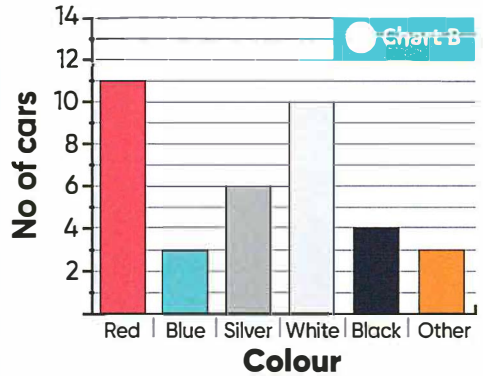
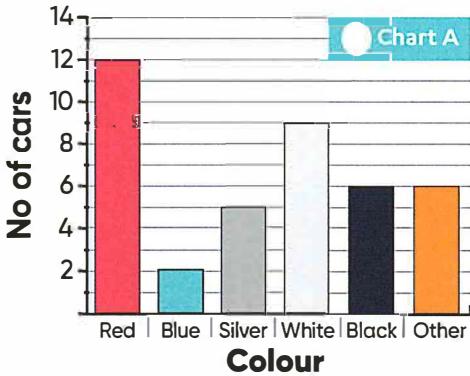
**Handling Data**

/ 3 Marks

Read the information about the number of cars seen in a car park and recorded in a tally chart.

Colour	No. of cars
Red	
Blue	
Silver	
White	
Black	
Other	

**Tick the bar chart that shows the same information as the tally chart.**



**What was the most popular colour car in the car park that day?**

**Which colour car was there least of that day?**

Don't know

Q3

## Handling Data

/ 2 Marks

What information does Chart B show you that Chart A doesn't?

**You may select more than one answer.**

 Weight in stones

 Weight in kilos

 5 different definitions of weight status

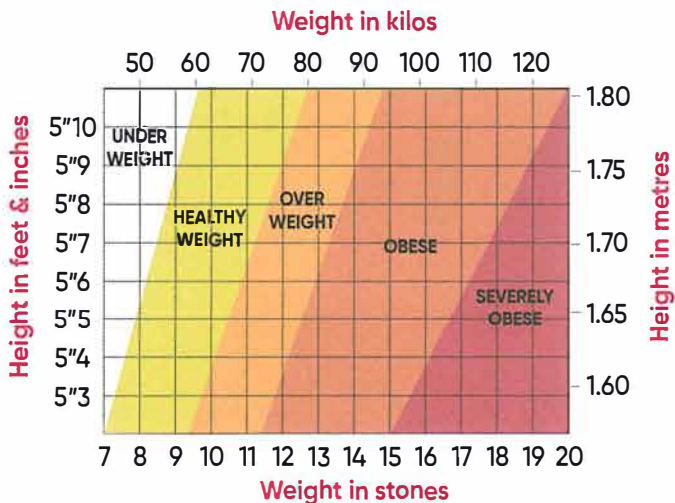
 Height in metres

 Don't know

Chart A

Height		Men		Women	
Feet	Metres	Kg	lbs	Kg	lbs
5' 2"	1.58	51-64	112-141	46-59	101-130
5' 3"	1.62	53-66	116-145	49-62	108-136
5' 4"	1.64	54-67	119-147	50-64	110-141
5' 5"	1.66	55-69	121-152	51-65	112-143
5' 6"	1.68	56-71	123-156	52-66	114-145
5' 7"	1.72	59-74	130-165	55-69	121-152
5' 8"	1.74	60-75	132-165	56-70	123-154
5' 9"	1.76	62-77	136-169	58-72	128-158
5' 10"	1.78	64-79	141-174	59-74	130-163

Chart B



# Q3B Handling Data

/ 1 Mark

Using the Charts below, if you were 1.58m which of these would be considered an ideal weight?

Select one answer.

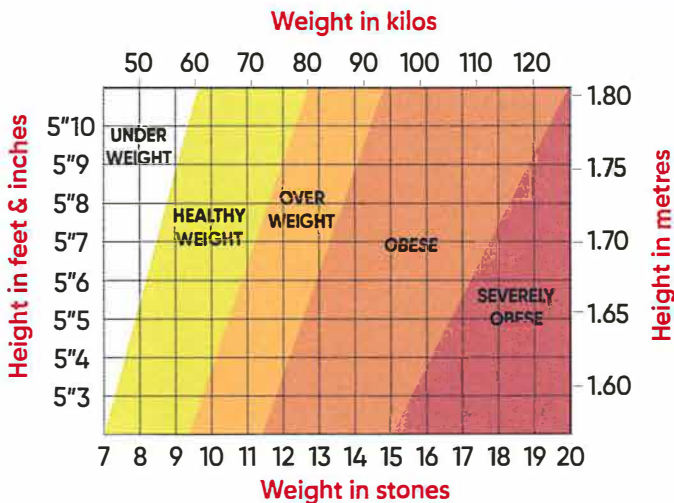
- 75 KG
- 55 KG
- 45 KG
- 65 KG

Don't know

Chart A

Height		Men		Women	
Feet	Metres	Kg	lbs	Kg	lbs
5' 2"	1.58	51-64	112-141	46-59	101-130
5' 3"	1.62	53-66	116-145	49-62	108-136
5' 4"	1.64	54-67	119-147	50-64	110-141
5' 5"	1.66	55-69	121-152	51-65	112-143
5' 6"	1.68	56-71	123-156	52-66	114-145
5' 7"	1.72	59-74	130-165	55-69	121-152
5' 8"	1.74	60-75	132-165	56-70	123-154
5' 9"	1.76	62-77	136-169	58-72	128-158
5' 10"	1.78	64-79	141-174	59-74	130-163

Chart B



**Q4****Handling Data**

/ 1 Mark

What is the probability that a die (dice) will land on a number higher than 4?

Give your answer as a fraction.

 Don't know

Q5

## Handling Data

/ 2 Marks

Learners in a class were surveyed to find out how they got to college. The table shows the results of the survey.

	Walk/cycle	Public Transport	Drive/lift	Total
Male	4	5	2	11
Female	3	9	4	16
Total	7	14	6	27

**Write your answers as fractions.**

If a learner is picked at random, what is the probability that they are female and use public transport?

 Don't know

The learner rejoins their classmates and another learner is picked at random. **What is the probability that they are female and walk/cycle to college?**

 Don't know

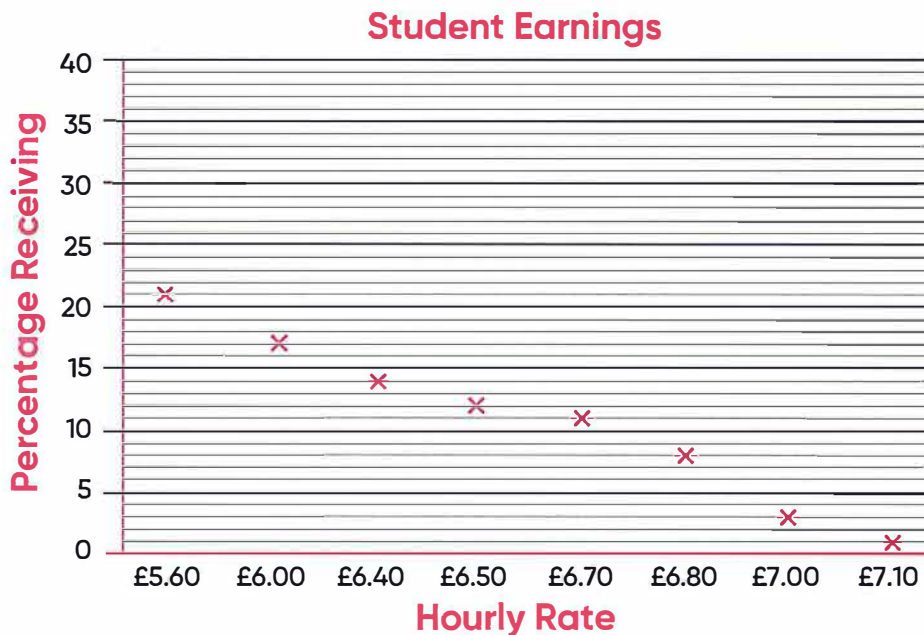


Q6

## Handling Data

/ 2 Marks

A survey was conducted of students with part-time jobs. The graph shows their contrasting hourly rates of pay.



If all the students earning £5.60 per hour had their rate increased by  $\frac{1}{7}$ , **what rate per hour would they be in?**

£

**What total percentage would then be in that higher rate?**

 %



Q7

## Handling Data

/1 Mark

There are five cards on a table. On four of the cards there are the numbers 9, 1, 3 and 5. You are told that the mean value of the numbers is 5.

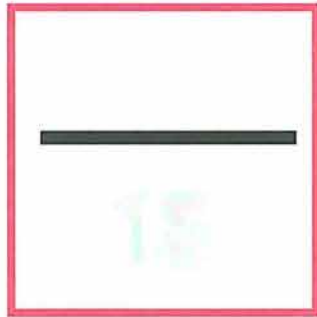
**What number is on the 5th card?**



# Handling data

## Section complete

What is the file extension



**Right click - click on 'save as' from the menu and in the save dialogue add your surname and date of birth to the end of the file name. Send this file back to your tutor .**

## FOR OFFICIAL USE ONLY

Section	Score	Level					
Number	/15	PE <input type="radio"/>	E1 <input type="radio"/>	E2 <input type="radio"/>	E3 <input type="radio"/>	L1 <input type="radio"/>	L2 <input type="radio"/>
Measures, Shape & Space	/13	PE <input type="radio"/>	E1 <input type="radio"/>	E2 <input type="radio"/>	E3 <input type="radio"/>	L1 <input type="radio"/>	L2 <input type="radio"/>
Handling Data	/15	PE <input type="radio"/>	E1 <input type="radio"/>	E2 <input type="radio"/>	E3 <input type="radio"/>	L1 <input type="radio"/>	L2 <input type="radio"/>
<b>Overall Marks</b>	<b>/43</b>						

## Overall Working Towards

Pre-Entry  Entry 1  Entry 2  Entry 3  Level 1  Level 2

Marked By :



Date :