



EXAM PAPERS PRACTICE

GCSE AQA Math 8300

Measures & Accuracy

Question Paper

*"We will help you to
achieve A Star "*

Q1.

The table shows information about grocery items.

	Small	Medium	Large
Bag of apples	–	495 grams	795 grams
Tin of fish	195 grams	285 grams	–
Packet of nuts	37 grams	57 grams	87 grams

Use approximations to estimate the **total** amount these items weigh.

- 2 large bags of apples
- 1 small tin of fish
- 2 medium packets of nuts

You **must** show your working.

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Answer grams

(Total 3 marks)

Q2.

Use your calculator to work out $\frac{3.21 + 4.89}{5.62 - 1.89}$ as a decimal.

(a) Write down your full calculator display.

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Answer

(1)

(b) Write your answer to 1 decimal place.

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Answer

(1)
(Total 2 marks)

Q3. Here is some information about tourism in 2012

Country visited	Number of tourists (millions)	Total spent by tourists (\$ millions)
France	83.0	53 600
USA	67.0	126 200
Spain	57.7	55 900

- (a) How many **more** tourists visited France than Spain?

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Answer million

(2)

- (b) 21% of the total spent by tourists in the USA was by Canadians.

Work out the amount spent by Canadian tourists in the USA.

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Answer \$ million

(2)

- (c) In the UK the total spent by tourists was \$36 600 million.
There were 29.3 million tourists.

Work out the average spent per tourist in the UK.

Give your answer to the nearest \$10

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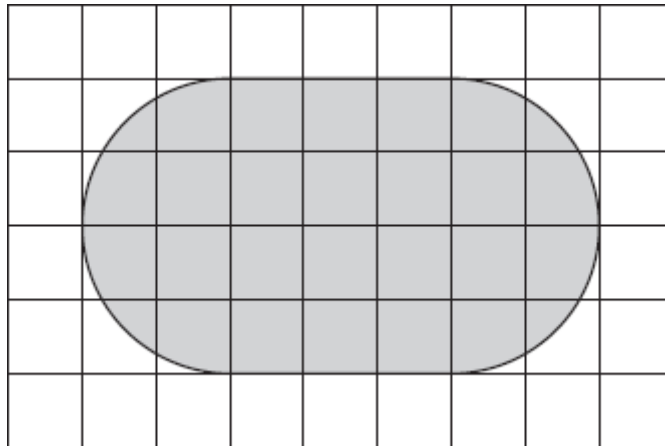
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Answer \$

(3)
(Total 7 marks)

Q4. Jack drew this sketch of his lawn on squared paper.
The length of each square represents 1 metre.



Work out an estimate for the area of his lawn.

Answer m²

(Total 3 marks)

Q5.

A pop concert has a crowd of 2000 people rounded to 1 significant figure.

A rock concert has a crowd of 2000 people rounded to 2 significant figures.

Work out the largest possible difference between the exact numbers of the two crowds.

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Answer

Q6.

(Total 3 marks)

Use approximations to estimate the value of $\frac{3.92^2}{0.48}$

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Answer

(Total 2 marks)

Q7.

A number, x , is 30 when rounded to the nearest 10

Work out the value of the square root of the least possible value of x .

Answer

Q8.

(Total 2 marks)

Nick went to a football training camp.

- (a) He weighed 80 kg before the training camp.
He weighed 74 kg after the training camp.

Work out his percentage weight loss.

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Answer %

(3)

- (b) Nick's backpack weighs 12 kg to the nearest kilogram.

What is the least the backpack could weigh?

Circle the correct answer.

11.4 kg 11.5 kg 11.6 kg 11.9 kg 12 kg

(1)
(Total 4 marks)

Q9.

Liz buys a car for £7500

She pays a deposit of £1875

She pays the rest in 36 equal monthly payments.

Work out the amount of each monthly payment.

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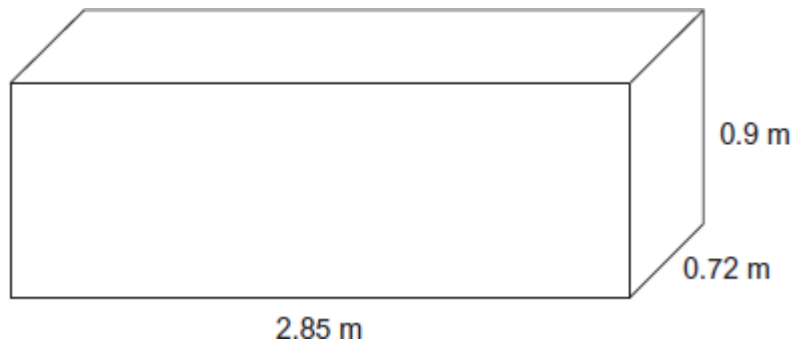
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Answer £.....

(Total 3 marks)

Q10.



Work out the volume of the cuboid.

State the units of your answer.

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Answer

(Total 3 marks)



Q11. A shop bought a box of pencils for £2.
There were 10 pencils in the box.

- (a) How much did one pencil cost?

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Answer pence

(1)

- (b) The shop sold all the pencils for 25p each.

How much profit did the shop make?

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Answer pence

(2)

(Total 3 marks)

Q12. The cost of hot drinks in a café is shown.

Coffee	£1.50
Tea	£1.25
Hot chocolate	£2.00

Tom buys two hot chocolates and one tea.

- (a) How much does he pay?

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Answer £

(2)

- (b) He pays with a £10 note.

How much change should he get?

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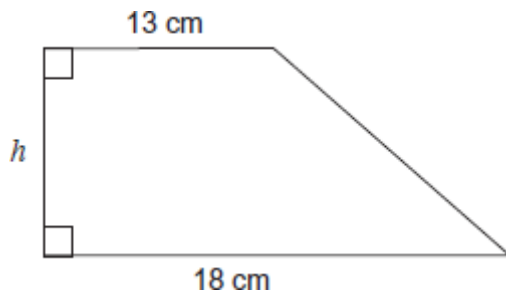
Answer £

(2)
(Total 4 marks)

Q13.

The area of this trapezium is 280 cm^2 to the nearest 10 cm^2

Not drawn accurately



The lengths 13 cm and 18 cm are given to the nearest centimetre.

Work out the maximum possible value of the height h .

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Answer cm

(Total 4 marks)



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Q14.(a) Garage A sold 4960 vehicles.

The garage takes a sample of customers, stratified by type of vehicle sold.
Some information about the sample is shown.

	Car	People carrier	Van	Total
Number sold	2520			4960
Number in sample	126	44		

Complete the table.

(3)

(b) Garage B sold 3790 vehicles, to 3 significant figures.

Write down the minimum and maximum possible number sold by Garage B.

Minimum

Maximum

(2)

(Total 5 marks)

Q15. Luke has a rectangular garden.

The length is 40 m

The width is 25 m

Both measurements are given to the nearest metre.

Mira also has a garden.

The area is 970 m^2 to the nearest 10 m^2

Mira thinks her garden has a bigger area.

Is she correct?

Tick a box.

You **must** show your working.

Correct

☐

Incorrect

☐

Cannot tell

☐



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(Total 3 marks)