

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

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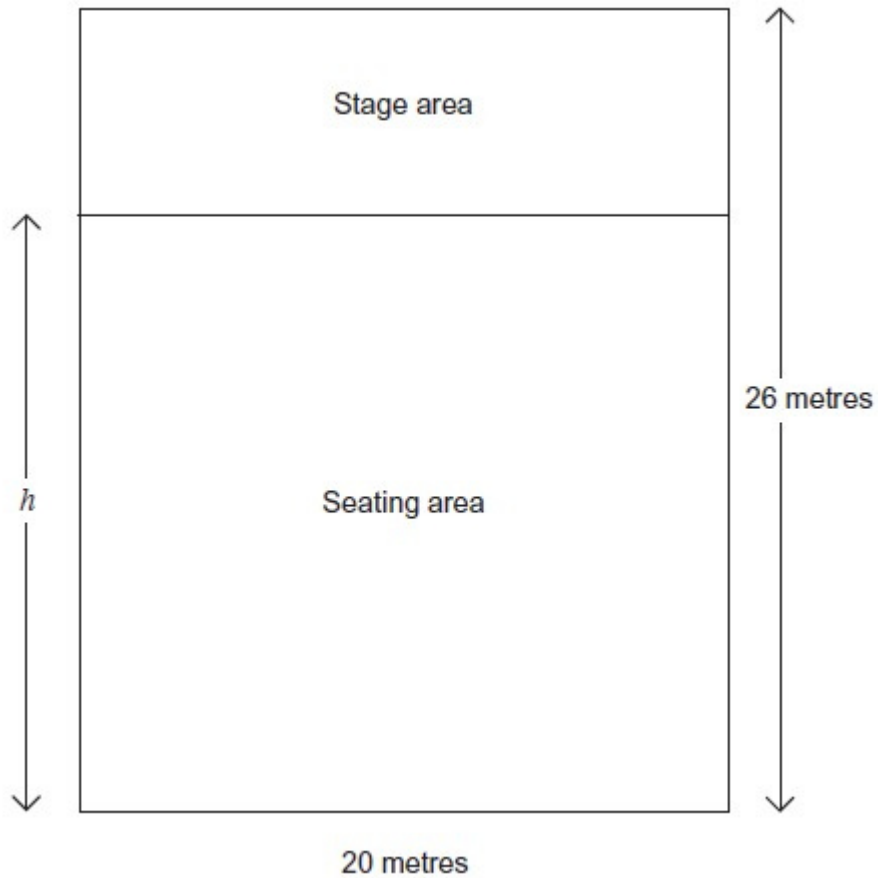
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Answer

(Total 2 marks)

Q3. The diagram shows a plan of a rectangular school hall.

Not drawn accurately



- (a) The stage area is one-quarter of the area of the school hall.

Work out the length h

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Answermetres

(3)

- (b) In the seating area

the maximum number of rows allowed is 13
the maximum number of seats allowed in a row is 16.

There are the same number of seats in each row.

Altogether there are 168 seats.

Work out the number of rows and the number of seats in each row.

You **must** show your working.

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Number of rows

Number of seats in each row

(3)
(Total 6 marks)

Q4.

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)

Q5. 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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Answer \$

(3)
(Total 7 marks)

Q6. Estimate the value of $98.7 \div 5$

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Answer

(Total 2 marks)

Q7. Use approximations to estimate the value of 9.9×41

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Answer

(Total 2 marks)

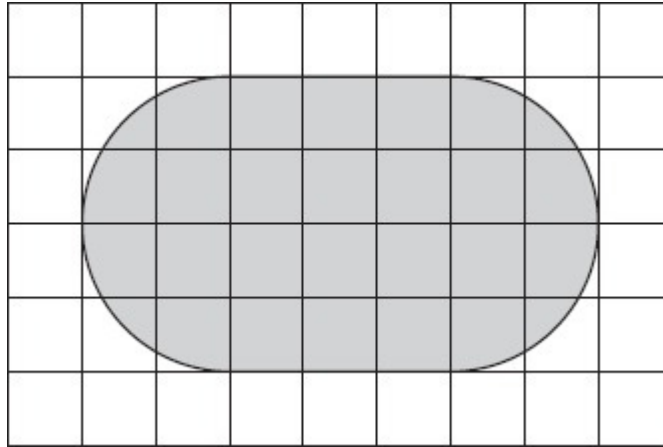
Q8. Use approximations to estimate the value of $\frac{20.02 \times 0.49}{1.99}$

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Answer

(Total 3 marks)

Q9. 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)

Q10. You are given
2.2 pounds = 1 kilogram
1 kilogram = 1000 grams

Matthew's grandmother asked him to buy $\frac{1}{2}$ pound of cherries.

Cherries are sold in 100 g, 250 g and 500 g packs. Which pack should he buy to get the nearest amount?

You **must** show your working.

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Answer g

(Total 4 marks)

Q11. Work out an approximate value of $\frac{41 \times 198}{77}$

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Answer

(Total 2 marks)

Q12.

(a) Work out $\sqrt{1.96}$

Answer

(1)

(b) Work out $\frac{10.6 - 7.45}{2.5}$

Answer

(1)
(Total 2 marks)

Q13.

Here is some information about a football match.

City versus Rovers Attendance 28 375

- (a) Write 28 375 to the nearest thousand.

Answer

(1)

- (b) Write 28 375 to the nearest hundred.

Answer

(1)

- (c) Molly goes to the match.

The match starts at 5.30 pm.
It finishes 1 hour 45 minutes later.
It will take her 3 hours 30 minutes to travel home.



Molly



Will Molly be home by 10 pm?
You **must** show your working.

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(4)
(Total 6 marks)

Q14. The table shows the cost of a short break at a holiday park.

Holiday starts in	Adult	1st and 2nd Child	3rd and 4th Child
June	£199 each	£39 each	FREE
July	£299 each	£49 each	£19 each
August	£349 each	£59 each	£39 each

Mr and Mrs Hyde and their **three** children want a short break starting on 28 July.

- (a) Use approximations to **estimate** the cost of this short break.
You **must** show your working.

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Answer £

(3)

- (b) Work out **exactly** how much **more** it would cost if they went in August instead of July.

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Answer £

(2)
(Total 5 marks)

Q15. Estimate the value of 29.6×5.2

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Answer

(Total 2 marks)

Q16. Use approximations to estimate the value of $\frac{402.5}{2.19 \times 38.7}$

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Answer

(Total 3 marks)