

AQA Qualifications

## GCSE MATHEMATICS

Topic tests - Higher tier - Real life

Name \_\_\_\_



A scooter is travelling at a constant speed of 75 kilometres per hour.	
The scooter travels at this speed for 20 minutes.	
How many kilometres has the scooter travelled in this time?	[1 mark]
Answer	km
The speed limit is 50 <b>miles</b> per hour.  Is the scooter travelling faster or slower than the speed limit?  Faster Slower	[2 marks]
You <b>must</b> show your working.	

2 On average it takes 47 lessons to pass the driving test.

## Driving school A

First 5 lessons £75

then £21 per lesson

## Driving school B

Normal price £23 per lesson

Special offer

15% off normal price

Which is cheaper for 47 lessons?	
You <b>must</b> show your working.	
	[5 marks]
Δηςωρη	

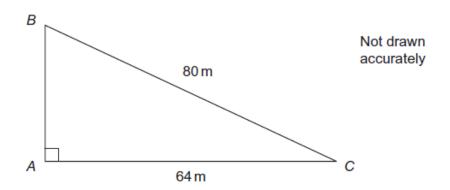


**3** 80 patients gave information about how long they waited to see the doctor.

Time, T, (minutes)	Frequency	
0 ≤ <i>T</i> < 10	5	
10 ≤ <i>T</i> < 20	22	
20 ≤ <i>T</i> < 30	28	
30 ≤ <i>T</i> < 40	21	
40 ≤ <i>T</i> < 50	4	

3	(a)	Work out an estimate of the mean time that the patients waited.	[4 marks]
			[
		Answer	minutes
3 (b)	The doctor says, "70% of our patients wait less than 30 minutes to be	seen."	
		Is she correct?	
		You <b>must</b> show your working.	[3 marks]
		Answer	

4 This triangular plot of land is for sale.



The land is sold for £ 6400 per acre.

1 acre =  $4047 \, \text{m}^2$ 

Work out the cost of the land.

Give your answer to 2 significant figures.	[6 marks
£	



His salary is £36000. The bank will lend him 3.5 times his salary for a mortgage. This is 90% of the house price.	
Work out the house price.	[4 marks]
f	

Pete is buying a house.

5

## **END OF QUESTIONS**

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