SECTION B

Q1) If 5 miles is approximately 8 kilometers, convert the following giving approximate answers

a) 24 kilometres b) 20 miles c) 12 kilometers

Answer_____ (1) Answer _____ (1) Answer _____ (1)

Q2) What is the smallest number that 2,3,6,and 10 will all go into exactly?

Answer _____ (2)

Q3) A recipe for Mathematical Pie serves 4 people and requires 50 grams of sultanas. How many grams of sultanas would be needed to make a larger pie for 6 people?

Answer_____ (3)

Q4) Use the fact that 53 x 72 = 3816 to write down the values of;

5.3 x 72 = Answer _____ (1)

530 x 7200 = Answer _____ (1)

3816 ÷ 53 = Answer _____ (1)

338160 ÷ 0.72 = Answer _____ (1)

Q5) In 25 minutes, through what angle does the minute hand of a clock pass?

Answer _____ (2)

Q6)
A square has a perimeter of 96cm.

a) Calculate the length of one side

Answer _____ (2)

b) Find the area of the square

Answer _____ (2)

c) Give a sketch, not to scale, of a rectangle, showing the length of its sides, which has the same area as the square.

Answer (2)

Q7) Numbers like 13 that have exactly two factors are called prime.

List all the prime numbers between 20 and 30

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Answer _____ (2)

Q8) My brother, sister and I are given a bag of sweets. My brother has first pick and greedily eats two-thirds of them. He hands the bag to my sister who eats three-quarters of the remaining sweets. There are just 6 sweets left for me. How many sweets did the bag contain to begin with?

Answer _____(4)

Q9). **Holiday Insurance Premiums**

Free for children under 4 years, reduced rate for children aged between 4 and 13 years inclusive.

	Adults	Children
Up to 3 days	£10.00	£6.00
Up to 7 days	£12.40	£7.60
Up to 9 days	£13.80	£8.90
Up to17 days	£19.80	£12.20
Up to 24 days	£23.40	£15.40
Up to 31 days	£26.00	£18.00

The table shows holiday insurance premiums.

a) What is the holiday insurance premium for an adult for

I) a 12 day holiday _____ (1)

ii) a 4 week holiday _____ (1)

b) Calculate the total holiday insurance premium for a family of five (mother, father, son aged 9, daughter aged 4 and son aged 1), taking a 2 week holiday.

Answer _____ (3)

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Q10)

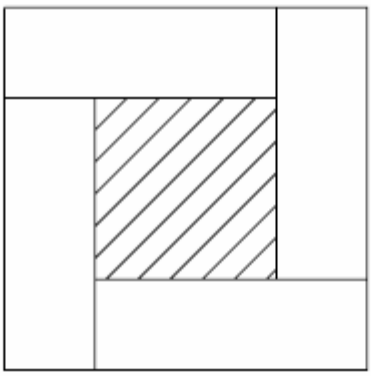
Three bus services stop at my bus stop. Service A departs every 3 minutes, service B every 5 minutes and service C every 8 minutes.

If all three services leave my stop at 10.00 a.m., at what time will they next leave my stop together? (Assume that all three services always run on time).

Answer (3 marks)

Q11)

Four rectangles each of length 27 cm and width 13 cm are arranged to form the square shape shown below (the diagram is not drawn to scale).



Find

a) The perimeter of the square shape

Answer _____cm (2)

b) The area of the shaded inner square

Answer _____ cm^2 (2)

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Q12)

My calculator is broken, only the following keys work:

2	7	x	-	=

Using only these keys show how you can make sums that come to each of the numbers from 1 to 10

(1 mark for each correct answer)