DOWNSIDE SCHOOL

DOWNSIDE SCHOOL MATHEMATICS DEPARTMENT

11+ Entrance Examination

SPECIMEN PAPER A

Time Allowed: 1 hour

Name:

- Answer all questions in this paper.
- Try to get correct solutions rather than hurrying.
- You may **NOT** use a calculator throughout the paper.
- It is important that you demonstrate every stage of your working.

1 Calculate the answers to the following sums:

(a)	3 4 8 2	(b)	4593
	2256+		1766-
(c)	5781	(d)	3945
	6 X		5 ÷
(e)	924	(f)	8194
	53X		17÷

Space for additional working:

Fill in the blank squares with a number to make these sums correct:



Margaret thinks of a number. She multiplies this number by 7 and then adds 12. 3 Her answer is 75. What was her original number?

Answer: ____

An isosceles triangle has a perimeter of 15 cm. One of the sides is 7 cm. What are 4 the lengths of the other two sides (NOTE: there are two possible answers to this)

Answer: _____ cm and _____ cm

OR: _____ cm and _____ cm

2

5 What fraction of this square is shaded? Give your answer as a fraction in its lowest terms.



Answer: _____

6 Reflect the shape shown on the grid below across the mirror line (shown in bold dashes)



7 Use the sorting diagram below to sort the numbers 7, 8 and 9 - placing each one in one of the boxes at the end. (NOTE: Not every box will be filled in)



8 Add the next two numbers to each of the following sequences, in the boxes provided:



9 Peter is collecting money for charity. The amount he collected, and the number of individual donors is recorded in the table below:

	Number of donors	Amount collected
Monday	22	£12.50
Tuesday	12	£7.70
Wednesday	31	£16.33
Thursday	18	£11.02
Friday	25	£20.00

(a) How much money did he collect on the day he had the most donors?

Answer: £_____

(b) How much more money did he collect on Thursday than Tuesday?

Answer: £_____

(c) How many donors did he see in total throughout the week?

Answer: _____

(d) How much money did he collect in total throughout the week?

Answer: £_____

10 Philip leaves home to drive to his parents house. The number of miles he drives over the given time since leaving home is shown in the diagram below:



(a) How far, approximately, does he travel in the first two hours of his journey?

Answer: _____

(b) If he leaves home at 10 a.m. at what time, approximately, did he stop for lunch?

Answer:

(c) What is his average speed, in miles per hour, for the whole journey?

Answer: _____

11 Two angles in a triangle are 72[°] and 46[°]. What is the third angle?

Answer: _____

12 For Christmas three brothers are given £60 from their Uncle. Andrew gets a third of this, and Daniel gets a quarter of it. How much does Thomas (the other brother) get?

Answer: £_____

13 What is:

(a) 20% of 170?

Answer: _____

(b) 15% of £286?

Answer:

14 A class of school children were asked how many people they lived with in their home. Their results are summarised in the bar chart below.



- a) 7 of the children lived with three other people. Add the bar to represent this information in the correct position.
- b) There were 36 children in the class. Calculate how many children lived with four other people, and draw this bar to complete the chart.
- c) How many people in total lived in the homes of all 36 children?

Answer: _____

- 15 Justin travels on a train that leaves London at 10:34 and arrives in Bath at 13.12
 - a) How long does the journey take?

Answer:

b) The train is 19 minutes late, and the journey takes 51 minutes longer than expected due to difficulties on the track. At what time does Justin arrive in Bath?

Answer: _____

16 30 children are going on a school trip. The trip costs ± 5 including lunch. However the students may pay only ± 3 and bring their own packed lunch if they wish. The total cost of the trip is ± 110 . How many of the students took a packed lunch?

Answer:	
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17 Find the area of this shape:



Answer: _____mm²

NOW GO BACK AND CHECK THROUGH YOUR WORK CAREFULLY