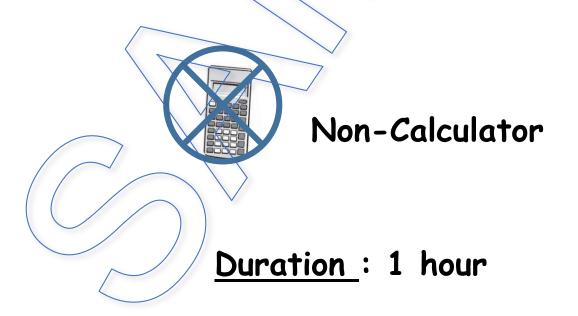
The Regent Secondary School



Mathematics Entrance Examination

SPECIMEN PAPER B

Entry to Year 7



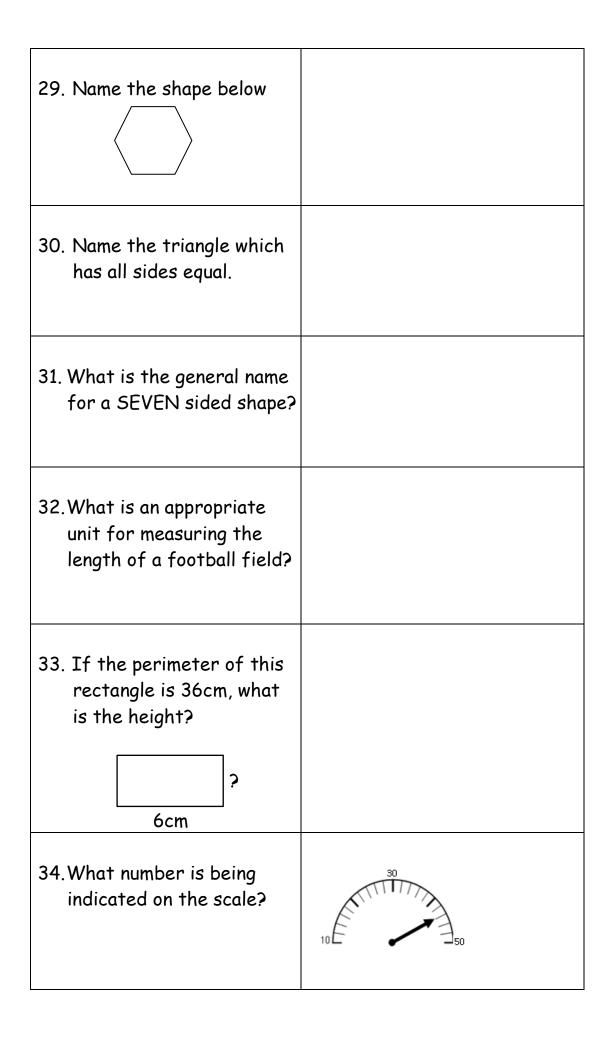
1. Circle the number that is the same as? $\frac{73}{100}$	730 0.73 73 0.073
2. Work out the missing number	
407 = 169	
3. Round 54.73 to 1 decimal place	
4. How many zeros are there in the number One million and six?	
5. New York is seven degrees warmer than Paris. If it is -8 ⁰ C in Paris, what is the temperature in New York?	
6. Give the input of the function machine if the output is 24	
? ADD 3 Multiply by 3 24	

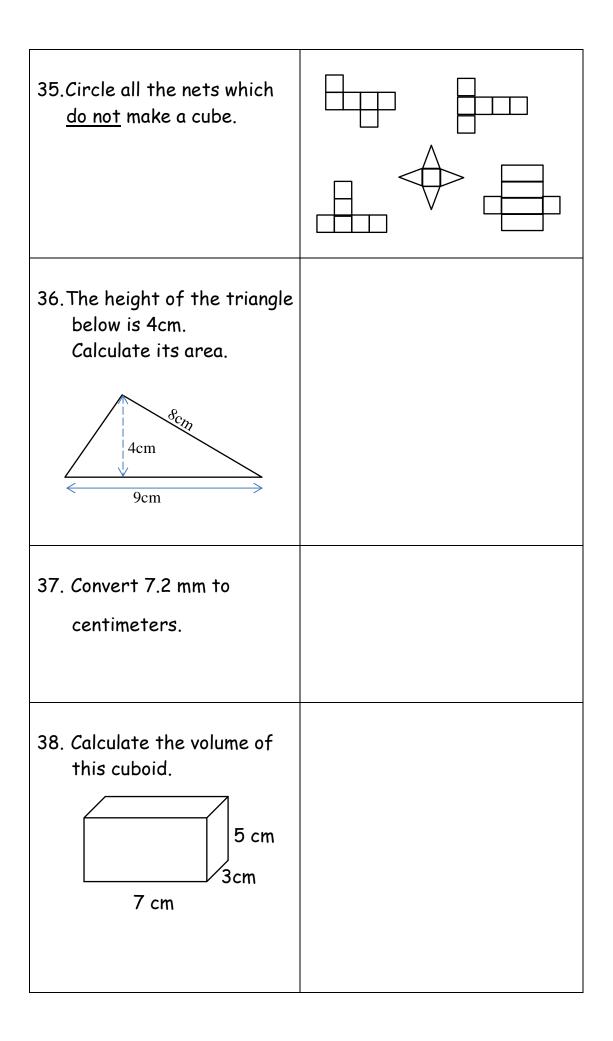
 7. Arrange the following numbers in descending order. 4.305 , 4.4 , 4.27 , 4.0999 	
8. What is the value of 3 in the number 72.375	
9. Work out 7- 9 - 3	
10.Work out 125 × 101	
11. Write any two other factors of 20 apart from 1.	
12. Subtract 0.11 from 3.3	

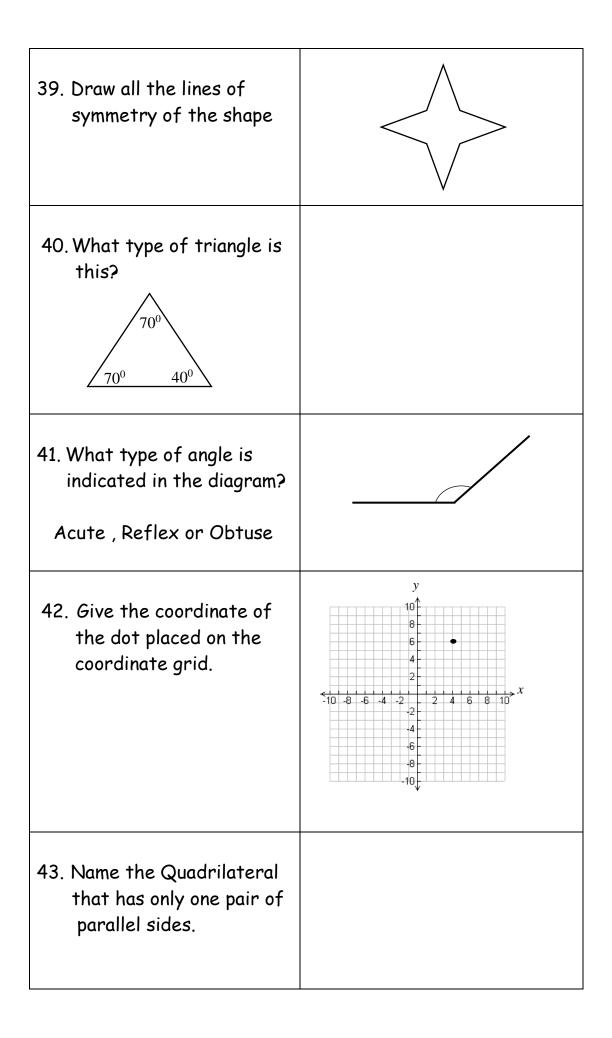
 13. A function machine has inputs of 5 and 9 resulting in outputs of 6 and 8. Fill in the missing operation. 	5 9 9 8
14. Work out (2) ⁵	
15. Work out $\frac{5}{8} + \frac{1}{4}$	
16. List all prime numbers bigger than 30 and less than 40	
17. Find the highest common factor of 20 and 25.	
18. What is the answer to the calculation shown?	32 - 7 x (5 - 2)

19. A pie is made of 2 parts sugar to 3 parts flour. How many grams of flour will be needed if 12 grams of sugar is used to make the same kind of pie?	
20. In the decimal number shown, the digit 1 is in the <u>Thousand</u> position. What position is the digit 6 in?	<u>1</u> 234.5 <u>6</u> 7
21. What is the next term of the sequence?	29, 23, 17, 11,
22. The number zero has been placed in one of the two boxes. Place a number in the other box in order in order to have a correct statement.	> 0
23. I think of a number. I multiply it by 4. If the result is 30, what is the number?	

24.Mark on the grid the point with the coordinate(- 4, - 6).	y 10 ¹ 4 -10 -8 -6 -4 -2 - 2 4 6 8 10 -2	
25.What is the next term of the sequence?	20, 38, 56, 74,	
26. I am thinking of a number. If I multiply it by 2 then subtract 5, I get 15. What number am I thinking of?		
27.John buys 2 packets of mints He eats <u>three</u> mints. If the number of <u>mints in a</u> <u>packet is k</u> , write an expression for how many mints John has left.	Instruction mints	
28. The pattern of symbols below is continuous. What will the <u>68th</u> symbol in this pattern be ? * \$ % * \$ % * \$ %		







44.Circle the word which best describes the chance of any fair six-sided die <u>landing on 3</u> when tossed?	Even Impossible Likely Ca	Unlikely ertain
45. The pictogram shows fan sales. On Wednesday 24 fans were sold. How many were sold on Tuesday?	Tue 🗄 🖶 🖻 Wed 🗄 🛃 🖻	-
46. What is the mean average of the numbers below? 6 , 2, 2 , 2 , 3 , 1 , 4		
47. What is the median value of the numbers below? 6 , 2, 2 , 2 , 3 , 1 , 4		
48. What is the mode of the set of numbers below? 6 , 2, 2 , 2 , 3 , 1 , 4		

