The Regent Secondary School



Mathematics Entrance Examination

SPECIMEN PAPER A

Entry to Year 7



<u> Duration</u> : 1 hour

1.	Work out 364 - 175	
2.	Work out 25 × 25	
3.	New York is 12 degrees colder than Houston. If the temperature in Houston is seven degrees (7 ⁰), what is the temperature in New York ?	
4.	Write "Seven hundred thousand and two" in numbers.	
5.	Give the decimal equivalent of ³ ⁄ ₄	

6. Find ⅔ of 90	
7. Arrange 7.225, 7.4, 7.0999 and 7.52 in order of size.	
8. Work out 3/4 - 2/3	
 The number 3½ is an example of a mixed number. Change the improper fraction shown into a mixed number. 	$\frac{17}{3} = \boxed{}$
10. Divide 765 by 5	

<u></u> 20	$=\frac{3}{5}$	
32 35 38	33 36 39	34 37 40
	32 32 35 38	$ \begin{array}{c} $

16. If 3 bags of coal cost \$15, how much will 7 of these bags cost?	
17. Find a common multiple of 20 and 25.	
18. What is the answer to the calculation shown?	32 - (7 + 5) x 2
19. A shade of colour green is made by mixing of 4 buckets of blue with 3 buckets of yellow. To make the same shade of green, how many buckets of blue will we need if we 12 buckets of yellow ?	
20. In the decimal number shown, the digit 1 is in the <u>Thousand</u> position. What position is the digit 5 in?	1234.567

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26.The first four numbers of a sequence have been written. What is the next number in the sequence?	2, 6, 18, 54,
27. I am thinking of a number. If I multiply it by 5 then subtract 5, I get 65. What is the number I am thinking of?	
28. An input goes into the two- step function machine shown, and generates an output of 74. Find the value of the input.	Function Machine ? -> × 4 -> -6 -> 74 Input Output
29. A big tin and two identical small tins weigh 5kg in total. If one small tin weighs 1.5kg, what does the big tin weigh?	
30.The pattern of symbols below is endless. What will the <u>38th</u> symbol in this pattern be? * \$ % * \$ % * \$ %	







45. A movie starts at 14:35. If the movie is 1 hour and 30 minutes long, what time does it end ?	
46. Circle the word which best describes the chance of any fair coin <u>landing on tails</u> when tossed?	Even Unlikely Impossible Certain
 47. The pictogram shows ice cream sales in a weekend. 18 ice creams sold on Saturday have been represented already. Complete the diagram to show that 30 ice creams were sold on Sunday. 	Sat QQQ Sun
48.What is the mean average of the set of numbers below? 7,1,2,3,1,4	
49.The chart shows the record of the favourite colours of all the students in a class. Which two colours did exactly 11 students pick?	Red Blue Yellow Green

50. What number should be on the blank card if the range of the four numbers is 4 ?

7 3 5