

Time: 1 Hour


(All calculations and work must be clearly shown in the margin provided next to each question)

MM: 100

Q.1	Answer the following questions in the space given below. (Each Question carries 2 Marks)			(18)
	(a) Divide: $-54x^4y^2z^3$ by $3x^2y^2z$	(b) Find the ratio between 3.75 <b>kg</b> and 750 <b>gm</b> .	(c) Convert: $\frac{3}{7}, \frac{4}{5}, \frac{1}{3}$ into like fractions.	<b>Rough Work</b>
	Your Answer	Your Answer	Your Answer	
	(d) Write down the supplement of 0.2 times of a straight angle.	(e) Find the volume and surface area of a cube whose edge is 1.1 <b>m</b> .	(f) Write down prime numbers from 1 to 50 whose unit digit is 7.	
	Your Answer	Your Answer	Your Answer	
	(g) What least number should be added to 23275 so that the resultant number is divisible by 6 ?	(h) Express $166\frac{2}{3}\%$ as a fraction.	(i) Divide the smallest 5 digit number by 29.	
	Your Answer	Your Answer	Your Answer	

Q. 2	Answer the following questions: (Each question carries 3 marks)		(36)
	(a) A man left 20% of his money for his wife, 50% of the remaining for his daughter and the remaining ₹. 9000 for his brother. How much money did he leave?	(b) In how many years will a sum of money triple itself, the rate of interest being 5% p.a.?	<b>Rough Work</b>
	(c) Solve for x $\therefore -2 = \frac{x}{3} - 3$	(d) Find the product of: $(12x - 9y)(4x - 5y)$	

	<p>(e) Using a ruler and compass, construct an angle of <math>75^\circ</math>.</p>	<p>(f) Sangita bought some oranges @ 3 oranges for ₹. 2 and sold them @ 2 oranges for ₹. 3. Find her profit % or loss%.</p>	<p><b>Rough Work</b></p>
	<p>(g) Find the least number which when decreased by 1 is exactly divisible by 21, 45, 63, 81.</p>	<p>(h) After travelling 100 km, Reah found that <math>\frac{1}{3}</math> of the journey was still left. How much was the length of the whole journey?</p>	

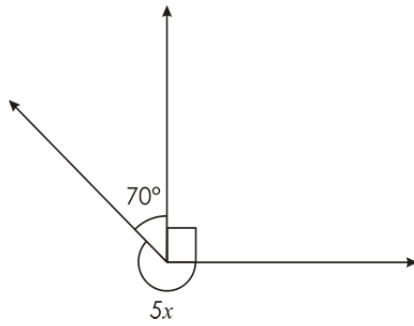
	<p>(i) A car can go 16.8 km using one litre of petrol. How many kilometers will it go in 3.7 litres of petrol?</p>	<p>(j) Write down the decimal indicated by the arrow :-</p> 	<p><b>Rough Work</b></p>
	<p>(k) If <math>b = 6</math>, <math>c = 4</math> &amp; <math>X = -2</math> find the value of:</p> <p>(i) <math>x^2 + b^3 - 3c</math></p> <p>(ii) <math>x(2b + c - 5)</math></p>	<p>(l) Find the ratio of the price of a pencil to that of a ball pen, if pencils cost ₹. 50 per score and ball pens cost ₹. 96 per dozen.</p>	

<b>Q.3</b>	<b>Answer the following questions: (Each question carries 4 marks)</b>		<b>(40)</b>
	<p>(a) Find the H.C.F. of 108 &amp; 450. Now; use the H.C.F. obtained to find the L.C.M. of the given numbers 108 &amp; 450.</p>	<p>(b) The area of a square field is 0.49 hectare. Find:  i) The side of Field.  ii) The perimeter of the Field.  iii) How much distance will a boy cover in taking 10 rounds of the field?</p>	<b>Rough Work</b>
	<p>(c) 160 men can repair a road in 40 days. How many more men should be employed to repair it in 10 days?</p>	<p>(d) The average of 6 results is 8. The average of the first 2 results is 7.5. What is the average of the remaining 4 results?</p>	

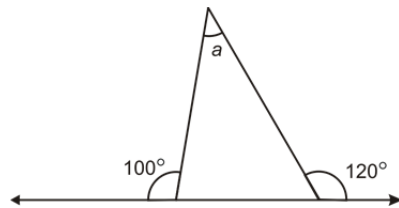
	<p>(e) What sum will amount to ₹. 13000 in 3 years @ 10% per annum simple interest?</p>	<p>(f) From the sum of <math>x^2 - xy + 2y^2</math>, <math>5x^2 + 8xy - 3y^2</math>, <math>7x^2 - 8xy + 9y^2</math> Subtract <math>11x^2 - 13xy + 9y^2</math></p>	<p><b>Rough Work</b></p>
	<p>(g) The cost of leveling a rectangular field at the rate of 85 paise per sq.m is ₹. 624.75. Find the perimeter if its sides are in the ratio 5:3.</p>	<p>(h) A man leaves ₹. 1,28,000 to his three children A, B &amp; C in the ratio 4:5:7. How much does each child receive?</p>	

(i) Find the unknown angle (Give reasons)

(1)



(2)



(j) A dealer sells two office tables for ₹ 3000 each. He gains 20% on one table & loses 20% on the other. What is his gain or loss on the whole transaction?

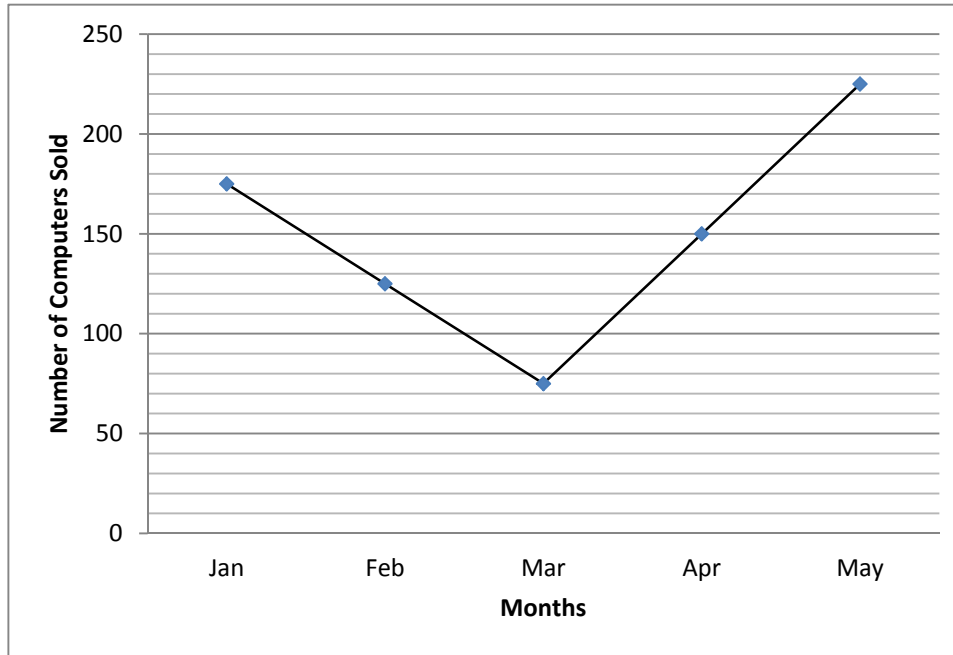
**Rough Work**

**Q. 4**

The graph below shows the number of computers sold by M/s. Computer Guru in the first 5 months of the year. Now study the graph carefully and answer the following questions.

**(6)**

**Rough Work**



- (a) Find the total sale of computers. ....
- (b) Express the sale of computers in the month of March as a percentage of the total sale. ....
- (c) How much did the sale of computers increase from March to May? .....