MODEL QUESTION SET

Mathematics

Class: 6 F.M.: 50 Time: 2 hours

Atten	npt all the questions.	
1.	A teacher asks to list out the factors of 18. Answer the following questions.	
	(a) Express the set in listing method.	1
	(b) Is 36 a member of the set? Give reason.	1
	(c) Re-write the set in set-builder form.	1
2.	(a) The mathematical expression for '4 times the sum of 7 and 3' is	1
	(b) On the occasion of a Sunil's birthday, he distributed 24 snickers and 36 cadburies	
	equally to his friends. What is the greatest number of his friends? Find.	2
	(c) In the morning assembly, 324 students are arranged in the square form. How many	
	students are there in each row?	2
	• • •	
3.	Kristina's family members visited Lumbini last week. While going to airport from her	
	home, they walked certain distance then travelled $\frac{3}{4}$ parts of the distance by bus and $\frac{1}{6}$	
	parts of the distance by taxi.	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(a) By which vehicle did they travel more to go to airport?	
	(b) If the distance of the airport from her home is 20 km, how long distance did they	
	travel by bus?	1
	(c) Convert the distance traveled by taxi up to decimal places.	1
	(d) What is the bus fare of a member at the rate of Rs 5.75 per km?	1
4.	Mr. Thapa is a stationer. He bought 20 books for Rs 6,000.	
	(a) What is the cost price of each book?	1
	(b) If he made a profit of Rs 30 in each book, what is the selling price of all the books?	2
7	(c) If he sold 45% of books on Sunday, how many books did he sell on Sunday?	1
5.	Mr. Ghale has a rectangular plot and Mrs. Chaudhari has a square plot. The plot of Mr.	
	Ghale is 50 ft. long and 32 ft. wide. The areas of their plots are equal.	
	(a) What is the area of Mrs. Chaudhary's plot?	1
	(b) What is the length of Mrs. Chaudhary's plot?	1
	(c) Who will need more wire to fence their plots for only one round? Find it.	2
	(d) If Mr. Ghale built a cuboidal house on his plot with length 40 ft., width 30 ft. and	

height 20 ft, what is the volume of his house?

1

(a) What is the product of the expressions $4a^3$ and $5a^2$?

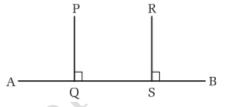
- 1
- (b) There are 5 hands of bananas in a bunch and 6 hands of bananas in another bunch. If there are x fingers in each hand of bunches, how many total fingers in both bunches of banana?
 - 2

- The area of a rectangular field is $(14x^2y^3 + 21xy^2)$ sq. m.
 - (a) If the length of the field is $7xy^2$ meter, find its breadth.

- 2
- (b) If x = 3 and y = 1, what is the actual breadth and area of the field?
- 2
- (a) What is the appropriate symbol '< or > or =' in the blank spaces of 7 4?
- 1
- (b) The cost of 10 pencils is Rs 15 more than the cost of such 7 pencils. What is the cost of a pencil? 2



- (a) In the given figure; write the down the relationship between 9.
 - (i) PQ and AB
 - (ii) PQ and RS



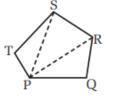


- (b) Draw a line segment AB of length 6 cm by using a ruler. At A, by the help of compass; draw $PA \perp AB$ where PA = 8 cm then join P and B.
- 3

(c) What type of triangle PAB is formed? Give reason.

- 1 1
- 10. (a) The chord that passes through the centre of the circle is called

 - (b) Write down the name of 3 triangles and 2 quadrilaterals from the given figure.



2

- (c) In a cubical box, if the number of faces = F, the number of edges = E and the number of vertices = V. What is the value of F + V - E? 1
- 11. (a) Plot the points A (6, 5), B (-2, 5), C (-2, -1) and D (2, -1) on a graph paper. Join the points in order. Name the figure so obtained. Also, find the area of the figure. 3
 - (b) Draw a tessellation using the squares of same size and colour it.
- 2
- The table given below shows the number of students enrolled in a school in the academic session 2078 B.S. from class VI to class X

Class	VI	VII	VIII	IX	X
Number of students	30	35	40	25	30

(a) Draw a bar graph to represent the data.

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(b) How many total students were enrolled from class VI to class X?

1

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