CBSE Sample Paper Class 6 Maths SA2 Set 5

Time	: 3 ho	Ma	ximum Marks : 90						
Gene	ral Ins	structions:							
1)	All q	estions are compulsory.							
2)	Sect	Section A carries 6 marks, one mark for each part.							
3)	Sect	ion B carries 10 marks, one mark	on B carries 10 marks, one mark for each part.						
4)		ion C carries 12 marks, two marks	•						
5)	Section D carries 32 marks, four marks for each question.								
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6)	3601	Section E carries 30 marks, five marks for each question. SECTION A							
Q.1	Choose the correct option for the following:								
	i)	A square pyramid has edg	ges						
		a) 12	b) 6						
		c) 8	d) 10						
	ii)	The English alphabet 'D' has	lines of symmetry.						
		a) 2	b) 1						
		c) 0	b) None of these						
	iii)	The ratio of 81: 108 is same as	6						
		a) 4:3	b) 9:14						
		c) 12:5	d) 3:4						
	iv)	Arranging data in the form of a	table is called						
		a) bar graph	b) Pictograph						
		c) array	d) tabulation						
	v) An engineer who wants to build a boundary wall of his house will need the								
		a) area	b) perimeter						
		c) raw data	d) value of π .						
	vi) The expression 2x + 5y is a								
		a) Monomial	b) Binomial						
		c) Constant term	d) Quadrinomial						
		SECT	TION B						
Q.2	Fill in the blanks:								
	a)	The coefficient of x in $-2xy^2$ is _	<u></u>						
	b)	The ratio of 36min to 1 hr is							
	c)	Write the equation for :- the sum of a number and 7 is 15							
	d)	d) The circumference of a circle of diameter 7cm is							
	e)	e) The perimeter of a square of side 25cm is							
	f)	Data obtained in original form is called							

- g) The number of times a particular observation occurs is called _____
- h) Which direction will you face if you start from North and turn $\frac{3}{4}$ of a revolution
- i) Half a revolution = _____°
- j) A rhombus has _____ line(s) of symmetry

SECTION C

- Q.3 Draw a square pyramid. How many faces does it have?
- Q.4 Draw a parallelogram and mark its diagonals
- Q.5 Find the area of a rectangle with $\ell = 16$ m, b = 14m
- Q.6 In a class of 45 students, there are 21 girls. Find the ratio of number of boys to total number of students
- Q.7 Write any two alphabets with two lines of symmetry. Also show the line of symmetry
- Q.8 Solve using trial and error: -

$$x + 8 = 12$$

SECTION D

Q.9 Esha collected the data for shoe size of 20 students in her class. Arrange this in the form of a frequency table using tally marks.

- Q.10 Draw a line segment AB=5cm. Construct its perpendicular bisector using a pair of compasses.
- Q.11 Find the cost of fencing a square park of sides 150m at the rate of ₹35 per metre.
- Q.12 Construct an angle of 90°, bisect it to obtain an angle of 45°. (using compass)
- Q.13 Divide 50 pens in the ratio 4:5
- Q.14 Subtract $3x^4 + 5x^3 9x^2 + 7x 2$ from $2x^4 5x^3 + 2x^2 6x 8$
- Q.15 Determine whether the given numbers are in proportion: 32,48,80,150
- Q.16 For x=2, y=3 find the value of 5x + 7y

SECTION E

- Q.17 Simplify $x^4 6x^3 + 7x^2 5x + 1 3x^4 + 5x^3 9x^2 + 7x 8$
- Q.18 The mode of transport used by different students of a school is as given below:-

Mode	Car	Bus	Two wheeler	Auto Rickshaw	
No of Students	300	900	650	250	

Draw a bar graph for the above data.

- Q.19 Bobby wants to cover the floor of a room 250cm long and 125 cm wide using square tiles of side 25cm. Find the number of tiles required.
- Q.20 Find the distance covered by the wheel of a car in 350 revolutions, if the diameter of the car's wheel is 35cm
- Q.21 Cost of 75 cards is ₹525. Find (a) how many cards can you buy for ₹770? (b) how much money do you need to pay for 10 cards?
- Q.22 Draw a square each of whose side is 4 cm. Use a pair of compasses and ruler for the construction.