

DELHI PUBLIC SCHOOL, CHANDIGARH

Summative Assessment-II, Session 2012-13

Class : VI, Subject : Maths (Sample Paper)

Time . 3	nouis	101101 . 90					
Genera	I Instructions:						
1) A	All questions are compulsory.						
2) S	Section A carries 6 marks, one mark for each part.						
3) S	Section B carries 10 marks, one mark for each part						
4) S	Section C carries 12 marks, two marks for each question						
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5) 5	Section D carries 32 marks, four marks for each question.						
6) S	Section E carries 30 marks, five marks for each question.						
01	SE						
Q.I C	choose the correct option for the following:						
I)) A square pyramid has	eages					
	a) 12	b) 6					
	c) 8	d) 10					
ii	i) The English alphabet 'D' has	lines of symmetry.					
	a) 2	b) 1					
	c) 0	b) None of these					
ii	iii) The ratio of 81 : 108 is same as						
	a) 4:3	b) 9:14					
	c) 12:5	d) 3:4					
iv	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 to find the						
	a) area	b) perimeter					
	c) raw data	d) value of π .					
v	i) The expression 2x + 5y is a						
	a) Monomial	b) Binomial					
	c) Constant term	d) Quadrinomial					
	SE	ECTION B					
Q.2 F	Fill in the blanks:						
а	a) The coefficient of x in $-2xy^2$	is					
b	b) The ratio of 36min to 1 hr is						
С	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	f) Data obtained in original form is called						
9001-200							

- 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 $\ell = 16m$, 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.

5, 4, 7, 5, 6, 5, 5, 6, 5, 4, 5, 6, 7, 8, 7, 4, 8, 7, 4, 6

- 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				
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.

