ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54

Class : 6 SUMMATIVE ASSESSMENT 2 Marks: 20

Date: 24.02.2015 MATHS Time: 30 minutes

Name: _____ Class & Sec. _____ R. No. _____

Note: All the answers should be done on the question paper itself.

1. The coefficient of 'a' in -8ab c^2 is _____
   a. -8 b. $-8\,bc^2$ c. -8 a
2. The solution of $2x + 5 = 15$ is _____
   a. 5 b. 10 c. 6
3. $7x + 2y - 3z$ is a _____
   a. Monomial b. Binomial c. Trinomial
4. The constant term in 3p + 8q + 5 is _____
   a. 3 b. 5 c. 8q
5. The numerical coefficient of pqr is _____
   a. pq b. qr c. 1
6. A line which is perpendicular to a given line segment and divides it into two equal halves, is called the _____
   a. Perpendicular bisector b. Divider c. Intersecting line
7. The area of a square whose side is 7cm is _____
   a. 14cm^2 b. 49cm^2 c. 28cm
8. The perimeter of a triangle with sides a, b, c is _____
   a. a + b + c b. a × b × c c. 2abc
9. The algebraic equation of 3 less than x is 11
   a. $x + 3 = 11$ b. $x - 3 = 11$ c. $3 - x = 11$
10. Exponential form of $2 \times 5 \times p \times p \times p \times q \times q \times r$ is _____
    a. 5*pqr* b. $p^3q^2\,r$ c. $10\,p^3q^2r$
11. $(-6x)$ and $(-6y)$ are _____ terms.
    a. Unlike b. like c. constant
12. The algebraic expression for terms $7x$, –4y, z, –6 is _____
    a. $7x - 4y + z - 6$ b. $7x + 4y + z - 6$ c. $7x - 4y + z$
13. The solution of 6m = 18 is _____
    a. 12 b. 3 c. 24
14. Each side of a regular pentagon is 8cm. Its perimeter is _____
    a. 64cm b. 40cm^2 c. 40cm
15. The simplest form of 14 : 63 is _____
    a. 2 : 9 b. 7 : 9 c. 1 : 9
16. The number of terms in the algebraic expression ax + 6b - cx^2 + 7 is _____
    a. 3 b. 2 c. 4
17. The like terms in the expression $2x^2 + y^2 - 3x^2 - 7z^2\,x$ are _____
    a. $2x^2$, $-3x^2$ b. $2x^2$, $7x$ c. $-3x^2$, $7x$
18. Which of the following is an equation?
    a. 3y + 5 > 9 b. 3y + 5 < 9 c. 3y + 5 = 9
19. A man earns ₹ 4900 in one week. How much will he earn in 1 day?
    a. ₹700 b. ₹ 70 c. ₹ 7000
20. The literal factor in $5x^2$yz is _____
    a. 5 b. yz c. x^2yz

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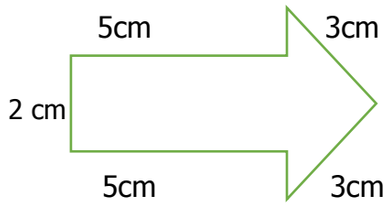
ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI-54

Class : 6 | SUMMATIVE ASSESSMENT 2 | Marks: 60

Date: 24.02.2015 | MATHS | Time: 2 hrs.

NOTE: All the questions are to be done on the answer sheet with proper steps.

1. Simplify the ratio 15minutes 4 hours. (2)
2. Find the value of x in 12:10 :: 48: x (2)
3. The sum of 3 consecutive integers is 45. What are these integers? (2)
4. Are 18, 10, 9, and 5 in proportion? (2)
5. Compare the following ratios 3: 10 and 2: 11 (2)
6. Find the perimeter of (2)



7. A marble tile measures 25cm × 20cm.Find the number of tiles required to cover a wall of size 4m× 3m. (3)
8. Write the terms and factors of the algebraic expression $2ab^2 - bac^3 + 5c$ (3)
9. The cost of 10metres of cloth is ₹300. Find the cost of 7metres of cloth? (3)
10. Evaluate $3a^2$ + 5b – c ; if a= 1 , b = 2 , c = -3 (3)
11. Manu's age is 3 years more than Tanu's age. The sum of their ages is 27 years.

    Find their ages. (3)
12. Solve the following equations

    a. $3x - 14 = x - 8$ b. $4(2+x) = 12$ ($3\frac{1}{2}+3\frac{1}{2}$)
13. Rohit earns ₹ 22,000 and saves ₹ 4000 per month. Find the ratio of

    a. His income to his saving c. His income to his expenditure

    b. His expenditure to his saving (4)
14. The area of a rectangle is $250m^2$. If its length is 25m, find its breadth and perimeter. (4)
15. The length and breadth of a rectangular park is 95m and 50m respectively.

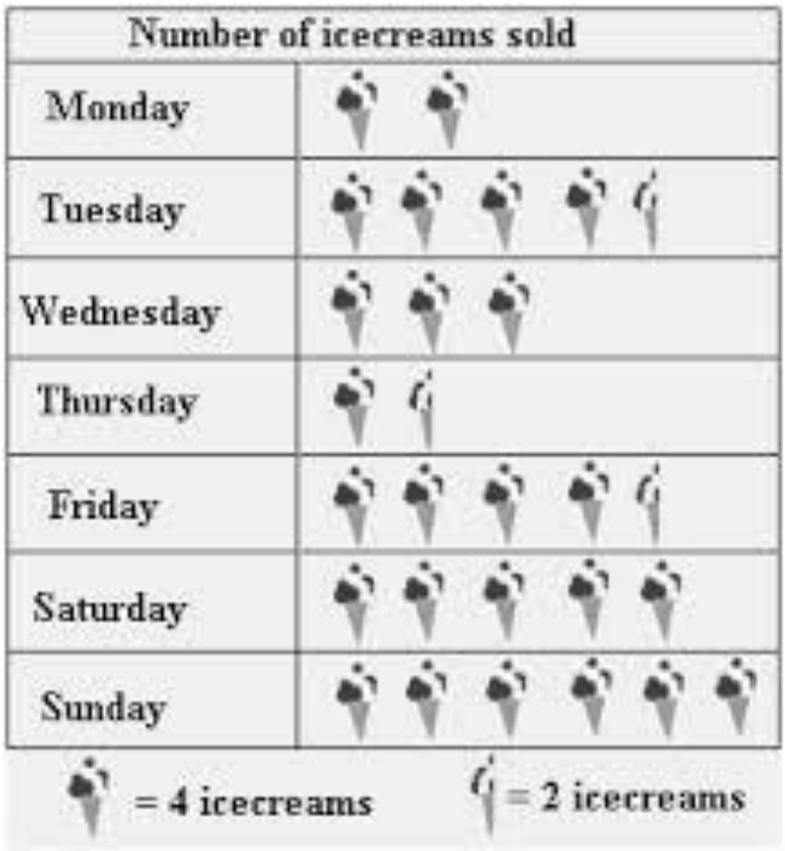
    Find the cost of fencing the park at the rate of ₹ 12 per metre. (4)
16. Draw a line segment of length $AB = 6$cm. Draw a perpendicular to the line from point P lying outside the line. (4)
17. Draw a bar graph representing the different mode of transport used by 75 students to reach school. (5)

Mode of transport	Car	Bus	Bike	Bicycle	Rickshaw
Number of students	25	15	10	20	5

Cont'd….2/-

18. The pictograph given below shows the number of ice creams sold during a week. (5)

1. How many ice-creams were sold on Monday?
2. How many ice-creams were sold on Thursday?
3. On what day of the week was the sale maximum?
4. On what day of the week was the sale minimum?
5. How many ice-creams were sold on Saturday and Sunday together?



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