

# Azaan International School

WORKSHEET (2022-23)

Name: \_\_\_\_\_

Subject: Math

Grade: VII\_\_

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## I. Multiple choice questions:

1. For what value of 'a', the number  $\frac{11}{a}$  is not a rational number ( )  
(a) 11 (b) -11 (c) 0 (d) 10
2. The Additive and Multiplicative inverse of  $\frac{2}{3}$  is ( )  
(a)  $\frac{3}{2}$  and  $\frac{-2}{3}$  (b)  $\frac{-3}{2}$  and  $\frac{-2}{3}$  (c)  $\frac{-2}{3}$  and  $\frac{3}{2}$  (d) none of these
3. Which of the following solids has the maximum number of vertices? ( )  
(a) Cuboid (b) Pyramid (c) Cylinder (d) Cone
4. The curved face of a cylinder can be opened up as a ( )  
(a) rectangle (b) triangle (c) circle (d) square
5. Which of the following is the Distributive property under addition? ( )  
(a)  $a \times b = b \times a$  (b)  $a + (b + c) = (a + b) + c$   
(c)  $a \times (b + c) = (a \times b) + (a \times c)$  (d)  $a + b = b + a$
6. The angle between two adjacent edges of a cube and cuboid is ( )  
(a)  $45^\circ$  (b)  $90^\circ$  (c)  $120^\circ$  (d)  $60^\circ$
7. The sum of the ages of 3 persons is 50. The sum of their ages after 5yrs is ( )  
(a) 55 (b) 65 (c) 150 (d) 21
8. One-fifth of a number minus 4 gives 3. The number is ( )  
(a) 20 (b) 7 (c) 15 (d) 35
9. Which of the following is the solution of the equation  $2x - 3y = 1$ ? ( )  
(a)  $x = 1$  and  $y = 1$  (b)  $x = 1$  and  $y = 2$   
(c)  $x = 2$  and  $y = 1$  (d)  $x = -1$  and  $y = 2$

10. 50 hectare = \_\_\_\_\_  $m^2$  ( )  
(a) 5000 (b) 50,000 (c) 5,00,000 (d) 50,00,000
11. The height of a triangle whose base is 13cm and its area is  $65cm^2$  is ( )  
(a) 12cm (b) 15cm (c) 10cm (d) 20cm
12. An ox tied to a pole with 10m long rope. The ox moves keeping the rope tight. The area of the ground swept by the rope is ( )  
(a)  $31.4m^2$  (b)  $614m^2$  (c)  $314m^2$  (d)  $416m^2$
13. If  $A = 2x - y + 3xy$ ,  $B = x + 2xy$  and  $C = 3y + xy$  then the value of  $A + B + C$  ( )  
(a)  $-3xy + 2y + 6xy$  (b)  $3x + 2y + 6xy$   
(c)  $3xy - 2y - 6xy$  (d)  $5xy - 2y$
14. The value of the expression  $a^3 + b^3 + c^3 - 3abc$  for  $a = 2, b = 3$  and  $c = 4$  ( )  
(a) 3 (b) 6 (c) 9 (d) 27
15. In  $-x$  the coefficient of  $x$  is ( )  
(a) 0 (b) 1 (c) -1 (d) none of these
16. The value of  $(-1)^{100} \times (-1)^{200}$  is ( )  
(a) 1 (b) -1 (c) 300 (d) 2000
17. The standard form of 12700 is ( )  
(a)  $12.7 \times 10^4$  (b)  $1.27 \times 10^4$  (c)  $1.27 \times 10^5$  (d)  $127 \times 10^2$
18. The simplest form of  $9 \times 10^3 + 2 \times 10^2$  is ( )  
(a) 9002 (b) 9000 (c) 9200 (d) 902
19. The number of terms in the expression  $3x^2y + 9xy - 2xy^3 + 6$  ( )  
(a) 1 (b) 2 (c) 3 (d) 4
20. The coefficient of  $p^2$  in the expression  $9p^2q - 7pq^2$  ( )  
(a) 9 (b)  $q$  (c)  $9q$  (d)  $-7q^2$