

**MULTIPLE CHOICE QUESTIONS****CLASS VII****TOPIC : INTEGERS****TIME: 30 MINUTES****TOTAL QUESTIONS = 40****Q1. In addition and subtraction of two integers , sign of the answer depends upon**

- (a) Smaller number (b) Their difference (c) Their sum (d) Greater numerical value

**Q2. Sum of two negative number is always**

- (a) Positive (b) Negative (c) 0 (d) 1

**Q3. Sum of two Positive number is always**

- (a) Negative (b) Positive (c) 1 (d) 0

**Q4. Sum of  $-36$  and  $29$  is**

- (a)  $-65$  (b)  $65$  (c)  $-7$  (d)  $7$

**Q5. Sum of  $-19$  and  $-21$  is**

- (a)  $-40$  (b)  $40$  (c)  $2$  (d)  $-2$

**Q6. Which of the following statement is false:**

- (a)  $-7 + (-6) = -13$  (b)  $-5 + 1 = 4$  (c)  $2 + (-1) = 1$  (d)  $8 + (-9) = -1$

**Q7. The pair of integers whose sum is  $-5$** 

- (a)  $1, -4$  (b)  $-1, 6$  (c)  $-3, -2$  (d)  $5, 0$

**Q8. What integers or number should be added to  $-5$  to get  $4$** 

- (a)  $1$  (b)  $-1$  (c)  $-9$  (d)  $9$

**Q9. What will be the additive inverse of  $-5$** 

- (a)  $-6$  (b)  $-4$  (c)  $3$  (d)  $5$

**Q10. What will be the additive inverse of  $7$** 

- (a)  $-7$  (b)  $-6$  (c)  $-5$  (d)  $-4$

**Q11. Predecessor of  $-9$  is**

- (a)  $-8$  (b)  $8$  (c)  $-10$  (d)  $10$

**Q12. Successor of  $-1$  is**

- (a)  $-2$  (b)  $0$  (c)  $1$  (d)  $2$

Q13. The value of  $6 - (-3)$  is

- (a) 3                      (b) -9                      (c) -3                      (d) 9

Q14. The value of  $26 - 30$  is equal to

- (a) 4                      (b) -4                      (c) -56                      (d) 56

Q15. Which of the following statement is true

- (a)  $7 - 4 = 4 - 7$                       (b)  $7 - 4 > 4 - 7$                       (c)  $7 - 4 < 4 - 7$                       (d)  $7 - 4 = -3$

Q16. Choose appropriate number for blank:  $-7 - (\underline{\quad}) = 2$

- (a) 5                      (b) -5                      (c) 9                      (d) -9

Q17. Multiplication of 3 and -4

- (a) -7                      (b) 12                      (c) -12                      (d) 7

Q18. Multiplication of -2, -7 and -10 gives

- (a) -34                      (b) 19                      (c) -140                      (d) 90

Q19. Multiplication of 2, -5 and 0 gives

- (a) 10                      (b) 0                      (c) -10                      (d) 7

Q20. Identify the property used in the following:  $2 \times 13 + 8 \times 13 = (2+8) \times 13$

- (a) Commutative                      (b) Closure                      (c) Associative                      (d) Distributive

Q21. Which number is multiplicative identity for the whole numbers

- (a) 0                      (b) 1                      (c) 2                      (d) 3

Q22. What will be multiplicative inverse of -8

- (a) 8                      (b)  $\frac{1}{8}$                       (c)  $-\frac{1}{8}$                       (d) 0

Q23. Which property is reflected in the following:  $7 \times 5 = 5 \times 7$

- (a) Closure                      (b) Commutative                      (c) Associative                      (d) Distributive

Q24.  $-18 \div 2$  gives

- (a) 36                      (b) 9                      (c) -9                      (d) -16

Q25.  $-6 \div (-3)$  gives

- (a) -9                      (b) 2                      (c) -2                      (d) 3

Q26. 15 divided by -3 is equal to

- (a) 12                      (b) -12                      (c) -5                      (d) 5

Q27.  $0 \div 10$  gives

- (a) 0                      (b) 10                      (c) 1                      (d) -10

Q28. Which of the following is not true

- (a)  $0 \div 2 = 0$               (b)  $-25 \div 5 = -5$               (c)  $12 \div 0 = 12$               (d)  $4 \div 1 = 4$

Q29. Which of the following is true

- (a)  $5 \div 7 = 7 \div 5$               (b)  $0 \div 3 = 0 \div 5$               (c)  $2 \div (3-1) = 2 \div 3 - 2 \div 1$               (d)  $4 \div 1 = 1 \div 4$

Q30. Which of the following does not represent pair of integer (a, b) such that  $a \div b = 2$

- (a) (-6, -3)              (b) (-2, 1)              (c) (-10, -5)              (d) (8, 4)

Q31. On dividing a negative integers by other negative integer the quotient will be

- (a) Always negative              (b) Always positive              (c) Either positive or negative              (d) 1

Q32. Which of the following statement is true

- (a)  $7 \div 0 = 7$               (b)  $7 \div 0 = 0$               (c)  $7 \div 0 = 0 \div 7$               (d)  $0 \div 7 = 0$

Q33. Product of two negative integers is always

- (a) Always negative              (b) Always positive              (c) Either positive or negative              (d) 0

Q34. The integer whose product with -1 is -40 is

- (a) 20                      (b) -20                      (c) -40                      (d) 40

Q35. Absolute value of -11 is

- (a) -10                      (b) 10                      (c) 11                      (d) 0

Q36.  $-8 \times 10 \times 9$  is equal to

- (a) 27                      (b) -27                      (c) -720                      (d) 720

Q37.  $16 \times 10 + 2$  is equal to

- (a) 162                      (b) 192                      (c) 52                      (d) 320

Q38.  $-16 \times (-1)$  is equal to

- (a) -17                      (b) 17                      (c) 16                      (d) -16

Q39.  $125 \div (-25)$  is equal to

- (a) 1                      (b) 5                      (c) -5                      (d) 100

Q40.  $(-50) \div \underline{\hspace{2cm}} = -1$ , number in the blank will be

- (a) 49                      (b) 50                      (c) -50                      (d) 51

## ANSWER KEY

Q. No.	Answer	Q. No.	Answer	Q. No.	Answer	Q. No.	Answer	Q. No.	Answer
1	d	9	D	17	c	25	b	33	b
2	b	10	A	18	c	26	c	34	d
3	b	11	C	19	b	27	a	35	c
4	c	12	B	20	d	28	c	36	c
5	a	13	D	21	b	29	b	37	a
6	b	14	B	22	c	30	b	38	c
7	c	15	B	23	b	31	b	39	c
8	d	16	D	24	c	32	d	40	b

## ANALYSIS

QUESTIONS	TALLY MARKS	CONCEPTS
6		Use of number line
4,5,7,8,13,14,15,16,17,18,19,24,25,26,27,28,29,32,34,36,37,38,39,40		Basic operation without using number line
11,12		Successor , Predecessor(Skill)
2,3,20,23,30,31,33		Properties on operations
9,10,22		Additive inverse , Multiplicative inverse
1,21,35,		Other Basic concepts

## MULTIPLE CHOICE QUESTIONS

### CLASS VII

#### TOPIC: FRACTIONS AND DECIMALS

TIME: 30 MINUTES

TOTAL QUESTIONS=40

1. Which of the following fraction has numerator 5

a)  $\frac{2}{5}$

b)  $\frac{5}{7}$

(c)  $1\frac{5}{7}$

(d)  $7\frac{1}{5}$

2. Which of the following fraction has denominator 8.

a)  $\frac{8}{3}$

b)  $1\frac{3}{8}$

(c)  $1\frac{8}{3}$

(d)  $\frac{3}{8}$

3. What fraction does the shaded portion in the adjoining fig. represents.



a)  $\frac{5}{2}$

b)  $\frac{3}{5}$

(c)  $\frac{2}{5}$

(d)  $\frac{5}{3}$

4. Which one of the following is proper fraction?

a)  $\frac{7}{5}$

b)  $\frac{3}{2}$

(c)  $\frac{4}{7}$

(d)  $\frac{4}{3}$

5. Which one of the following is improper fraction?

a)  $\frac{2}{3}$

b)  $\frac{5}{7}$

(c)  $\frac{7}{4}$

(d)  $\frac{1}{2}$

6. What is the value of  $\frac{2}{7} + \frac{3}{7}$

a)  $\frac{5}{14}$

b)  $\frac{5}{7}$

(c)  $\frac{6}{7}$

(d)  $\frac{35}{14}$

7. What is the value of  $\frac{3}{5} + \frac{2}{7}$

a)  $\frac{5}{12}$

b)  $\frac{29}{35}$

(c)  $\frac{31}{35}$

(d)  $\frac{5}{35}$

8. What is the value of  $\frac{2}{3} + \frac{1}{3} + \frac{7}{3}$

- a)  $\frac{10}{3}$                       b)  $\frac{10}{9}$                       (c)  $\frac{30}{3}$                       (d)  $\frac{10}{27}$

9. What is the value of  $\frac{2}{3} + \frac{1}{3} + \frac{7}{3}$

- a)  $\frac{10}{3}$                       b)  $\frac{10}{9}$                       (c)  $\frac{30}{3}$                       (d)  $\frac{10}{27}$

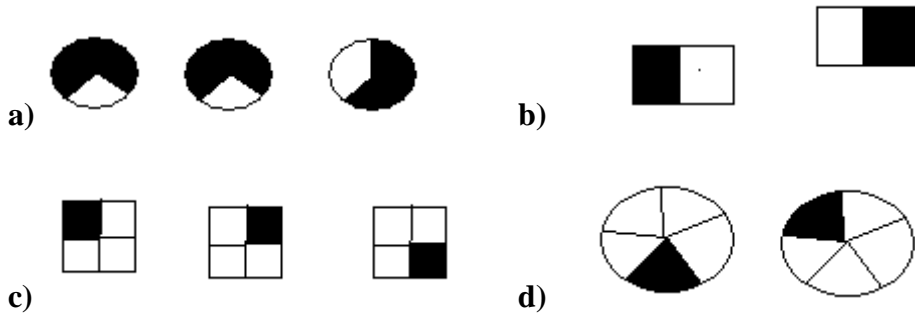
10. What is the value of  $\frac{5}{8} - \frac{3}{8}$

- a)  $\frac{37}{16}$                       b)  $\frac{1}{8}$                       (c)  $\frac{2}{8}$                       (d)  $\frac{43}{8}$

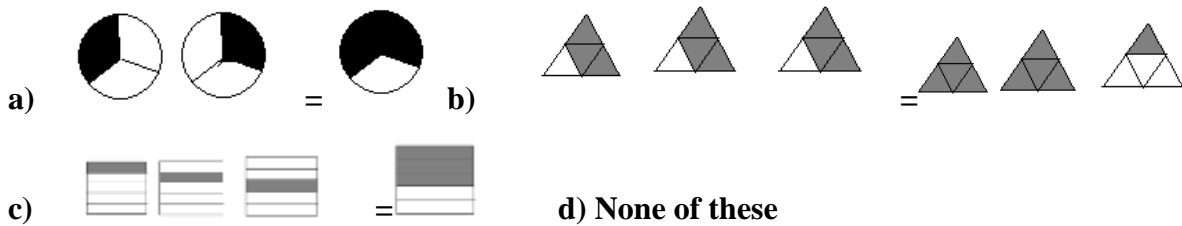
11. What is the value of  $\frac{4}{5} - \frac{2}{3}$

- a)  $\frac{2}{2}$                       b)  $\frac{14}{15}$                       (c)  $\frac{2}{15}$                       (d) none of these

12. Which of the following drawing shows  $2 \times \frac{1}{5}$



13. Which of the following drawing shows  $3 \times \frac{3}{4} = 2\frac{1}{4}$



14. The value of  $\frac{1}{2}$  of 24 is

- a) 12                      b)  $\frac{1}{12}$                       (c) 48                      (d)  $\frac{1}{48}$

15. The product of  $\frac{1}{4} \times$  **EMBED Equation.3** gives

- (a)  $\frac{3}{20}$                       (b)  $\frac{5}{12}$                       (c)  $\frac{12}{5}$                       (d)  $\frac{20}{3}$

16. Which of the following product gives the value  $\frac{78}{5}$

- (a)  $3 \times 5\frac{1}{5}$                       (b)  $\frac{1}{3} \times$  **EMBED Equation.3**                      (c)  $3 \times \frac{5}{26}$   
(d) None of these

17. The product of  $\frac{2}{5} \times 5\frac{1}{4}$  gives

- (a)  $\frac{1}{2}$                       (b)  $\frac{21}{10}$                       (c)  $\frac{11}{10}$                       (d)  $\frac{15}{10}$

18. The reciprocal of  $1\frac{2}{3}$  is

- (a)  $\frac{3}{2}$                       (b)  $1\frac{3}{2}$                       (c)  $\frac{5}{3}$                       (d)  $\frac{3}{5}$

19. The value of  $12 \div$  **EMBED Equation.3**

- (a) 16                      (b) 1                      (c) 9                      (d)  $\frac{1}{16}$

20. The value of  $3\frac{1}{2} \div$  **EMBED Equation.3**

- (a) 4                      (b)  $\frac{28}{3}$                       (c)  $\frac{9}{4}$                       (d)  $\frac{21}{16}$

21. The value of  $4\frac{1}{3} \div 3$  is

- (a) 4                      (b) 13                      (c)  $\frac{13}{9}$                       (d)  $\frac{9}{13}$

22. Which of the following is the least form of  $\frac{18}{36}$

- (a)  $\frac{3}{6}$                       (b)  $\frac{9}{18}$                       (c)  $\frac{1}{2}$                       (d)  $\frac{2}{1}$

23. What is the sum of 5.300 and 3.250

- (a) 8.550                      (b) 85.50                      (c) 5.6250                      (d) 8550

24. What is the value of  $29.35 - 04.56$
- (a) 23.75                      (b) 16.35                      (c) 16.25                      (d) 24.79
25. Which one of the following is greater
- (a) 5.0                          (b) 0.5                          (c) 0.005                      (d) 0.05
26. Which one of the following is smaller
- (a) 2.031                      (b) 2.301                      (c) 0.2301                      (d) 23.01
27. 7 Rupees 7 paise can be written in rupees as
- (a) Rs7.07                      (b) Rs7.70                      (c) Rs0.707                      (d) Rs 770
28. 5 cm in Km can be written as
- (a) 0.0005                      (b) 0.00005                      (c) 0.0005                      (d) 0.05
29. The place value of 2 in 21.38 is
- (a) Ones                          (b) Tens                          (c) Tenth                          (d) Hundredth
30. Which one of the following represent the expansion
- $$2 \times 10^2 + 0 \times 10^1 + 3 \times 10^0$$
- (a) 20.03                      (b) 2.03                          (c) 200.03                      (d) 2.034
31. The value of  $2.71 \times 5$  is
- (a) 135.5                      (b) 1355                          (c) 13.55                          (d) 1.355
32. The product of 153.7 and 10 is
- (a) 1.537                          (b) 15.37                          (c) 153.7                          (d) 1537
33. The value of  $43.07 \times 100$  is
- (a) 4.307                          (b) 4307                          (c) 43.07                          (d) 430.7
34. The value of  $0.03 \times 1000$  is
- (a) 0.00003                      (b) 3                                  (c) 0.003                          (d) 30
35. The value of  $1.3 \times 3.1$  is
- (a) 403                              (b) 0.403                          (c) 4.03                              (d) 0.0403
36. The value of  $0.80 \div 5$  is
- (a) 16                                  (b) 0.16                          (c)  $\frac{1}{16}$                               (d) 1.6
37. The value of  $52.5 \div 10$  is
- (a) 5.25                              (b) 0.525                          (c) 525                              (d) 5250



38. The value of  $0.78 \div 100$  is

- (a) 7800                      (b) 0.0078                      (c) 0.78                      (d) 7.8

39. The value of  $26.3 \div 1000$  is

- (a) 0.0263                      (b) 0.2630                      (c) 26300                      (d) 26.300

40. The value of  $7.75 \div 0.25$  is

- (a) 31                      (b) 0.0031                      (c) 0.31                      (d) 3.1

## Topic: Fractions and decimals

## ANSWER KEY

## Class – VII

<b>1(b)</b>	<b>2(d)</b>	<b>3(c)</b>	<b>4(c)</b>	<b>5(c)</b>	<b>6(b)</b>	<b>7(c)</b>	<b>8(a)</b>	<b>9(b)</b>	<b>10(c)</b>
<b>11(c)</b>	<b>12(d)</b>	<b>13(b)</b>	<b>14(a)</b>	<b>15(a)</b>	<b>16(a)</b>	<b>17(b)</b>	<b>18(d)</b>	<b>19(a)</b>	<b>20(d)</b>
<b>21(c)</b>	<b>22(c)</b>	<b>23(a)</b>	<b>24(d)</b>	<b>25(a)</b>	<b>26(c)</b>	<b>27(a)</b>	<b>28(b)</b>	<b>29(b)</b>	<b>30(a)</b>
<b>31(c)</b>	<b>32(d)</b>	<b>33(b)</b>	<b>34(d)</b>	<b>35(c)</b>	<b>36(b)</b>	<b>37(a)</b>	<b>38(b)</b>	<b>39(a)</b>	<b>40(a)</b>

## ANALYSIS

Concepts	Tally Marks	Questions
<b>Basic concepts of fractions</b>		<b>1,2,3,4,5</b>
<b>Addition and subtraction of fractions</b>		<b>6,7,8,9,10,11</b>
<b>Multiplication of fractions</b>		<b>12,13,14,15,16,,17,18</b>
<b>Division of fractions</b>		<b>19,20,21,22</b>
<b>Basic concepts, addition and subtraction of decimals</b>		<b>23 to 30</b>
<b>Multiplication of decimals</b>		<b>31 to 35</b>
<b>Division of decimals</b>		<b>36 to 40</b>

## MULTIPLE CHOICE QUESTIONS

### CLASS VII

#### TOPIC: DATA HANDLING

TIME: 15 MINUTES

TOTAL QUESTIONS = 20

Q.1. The mean of the first five whole number is \_\_\_\_\_ .

- a. 2                      b. 5                      c. 3                      d. 4

Q.2. A cricketer scores the following runs in eight innings :

58 , 76 , 40 , 35 , 46 , 45 , 0 , 100


What will be their mean score ?

- a. 400                      b. 50                      c. 200                      d. 100

Q.3. What will be the range of following data ?

32 , 41 , 28 , 54 , 35 , 26 , 33 , 23 , 38 , 40

- a. 25                      b. 23                      c. 31                      d. 54

Q.4. The tally mark  shows frequency \_\_\_\_\_ .

- a. 4                      b. 5                      c. 0                      d. 3

Q.5. Which observation in the following data has maximum frequency ?

1 , 1 , 2 , 4 , 3 , 2 , 1 , 2 , 2 , 4

- a. 4                      b. 3                      c. 1                      d. 2

Q.6. The tally mark  shows frequency \_\_\_\_\_ .

- a. 5                      b. 3                      c. 2                      d. none of these

Q.7. The mode of the data 2 , 2 , 2 , 3 , 3 , 4 , 5 , 5 , 5 , 6 , 6 , 8 is \_\_\_\_\_ .

- a. 2                      b. 5                      c. 8                      d. 2 & 5 both

Q.8. A data can have \_\_\_\_\_ mode .

- a. Only one                      b. only two                      c. only 3                      d. more than one

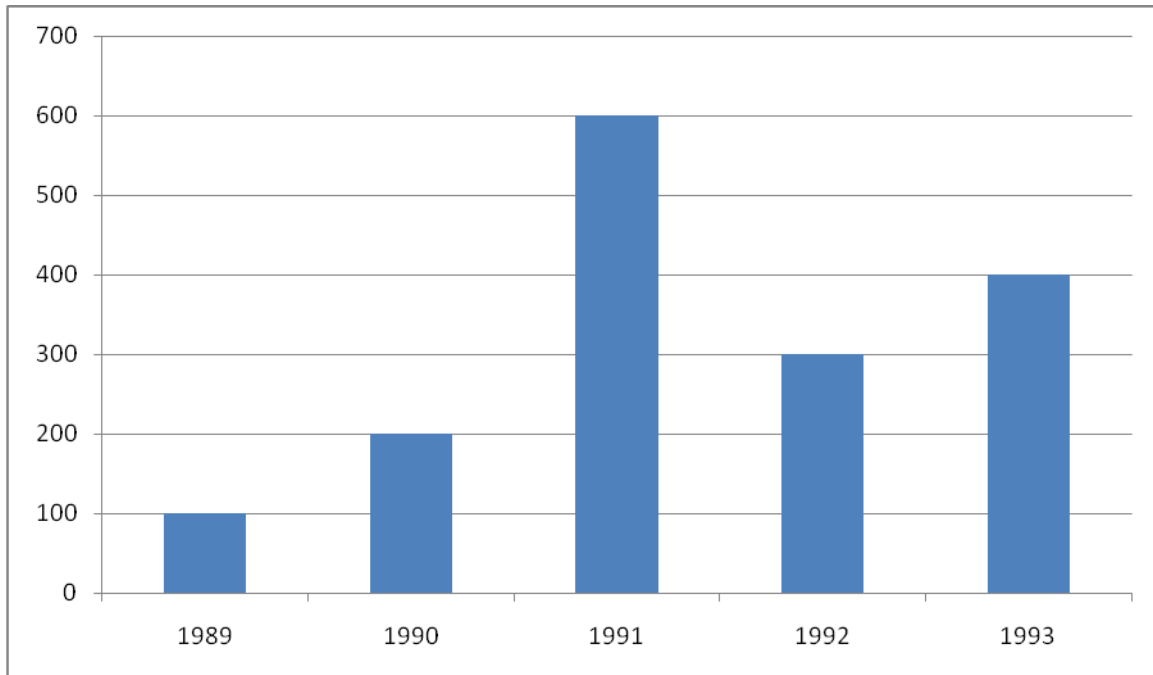
Q.9. Median of the data 13,16,12,14,19,12,14,13,14 is \_\_\_\_\_ .

- a. 14                      b. 19                      c. 12                      d. 13

Q.10. Mode and median of the data 13,16,12,14,19,12,14,13,14 are:

- a. 13 & 14                      b. 14 & 13                      c. 14 & 14                      d. 19 & 13

Read the following bar graph which shows the number of books sold by a bookstore during five consecutive years and answer the question given bellow (Q11-Q16)



Q.11. How many books were sold in 1989 ?

- (a) 100                      b. 200                      c. 300                      d. 600

Q.12. In which year were 400 books sold ?

- a. 1990                      b. 1991                      c. 1993                      d. 1989

Q.13. In which year were fewer than 200 books sold ?

- a. 1989                      b. 1991                      c. 1993                      d. 1992

Q.14. What will be the difference of number of books sold in 1993 and 1990 ?

- a. 600                      b. 200                      c. 400                      d. 100

Q.15. How many books were sold from 1989 to 1991?

- a. 600                      b. 900                      c. 400                      d. 800

Q.16. How many books were sold from 1991 to 1993?

- a. 1300                      b. 1000                      c. 900                      d. 800

Q.17. There are 6 marbles in a box with number 1 to 6 marked on each of them . What is the probability of drawing a marble with number 2 ?

- a.  $\frac{1}{6}$                       b.  $\frac{1}{5}$                       c.  $\frac{1}{3}$                       d. 1

Q.18. A coin is flipped to decide which team starts the game . what is the probability of your team will start ?

a.  $\frac{1}{4}$

b.  $\frac{1}{2}$

c. 1

d. 0

Q.19. A die is thrown once . What will be the probability of getting a prime number ?

a.  $\frac{1}{2}$

b. 0

c. 1

d.  $\frac{1}{6}$

Q.20. Median of the data 9,8,1,2,3,6,7,5,4 is ----

a. 5

b. 9

c. 6

d. 4

## ANSWER KEY

<b>Q. No</b>	<b>Answer</b>	<b>Q. No</b>	<b>Answer</b>
<b>1</b>	<b>a</b>	<b>11</b>	<b>a</b>
<b>2</b>	<b>b</b>	<b>12</b>	<b>c</b>
<b>3</b>	<b>c</b>	<b>13</b>	<b>a</b>
<b>4</b>	<b>b</b>	<b>14</b>	<b>b</b>
<b>5</b>	<b>d</b>	<b>15</b>	<b>b</b>
<b>6</b>	<b>d</b>	<b>16</b>	<b>a</b>
<b>7</b>	<b>d</b>	<b>17</b>	<b>a</b>
<b>8</b>	<b>d</b>	<b>18</b>	<b>b</b>
<b>9</b>	<b>a</b>	<b>19</b>	<b>a</b>
<b>10</b>	<b>c</b>	<b>20</b>	<b>a</b>

**MULTIPLE CHOICE QUESTIONS**  
**CLASS VII**  
**TOPIC: PERIMETER AND AREA**

TIME: 30 MINUTES

TOTAL QUESTIONS=40

- Q.1.** The perimeter of regular polygon is
- (a) no. of sides  $\times$  lengths of one side                      (b) no. of sides + lengths of one side  
(c) no. of sides – lengths of one side                      (d) no. of sides  $\div$  lengths of one side
- Q.2.** If the area of rectangle increases from  $2 \text{ cm}^2$  to  $4 \text{ cm}^2$  the perimeter will
- (a) increase              (b) decrease              (c) remains same              (d) none of these
- Q.3.** The area of a square whose perimeter is 4 m
- (a)  $1 \text{ m}^2$               (b)  $4 \text{ m}^2$               (c)  $2 \text{ m}^2$               (d)  $3 \text{ m}^2$
- Q.4.** Which figure encloses more area : a square of side 2 cm ; a rectangle of side 3 cm & 2 cm ; An equilateral triangle of side 4 cm
- (a) rectangle              (b) square              (c) triangle              (d) same of rectangle & square
- Q.5.** The area of rectangle whose length is 15 cm & breadth is 6 m
- (a)  $9000 \text{ cm}^2$               (b)  $90 \text{ cm}^2$               (c)  $9 \text{ cm}^2$               (d)  $900 \text{ cm}^2$
- Q.6.** In the figure  $\triangle ABC$  is isosceles  $AE = 6 \text{ cm}$  ,  $BC = 9 \text{ cm}$ , the area of  $\triangle ABC$  is
- (a)  $27 \text{ cm}^2$               (b)  $54 \text{ cm}^2$               (c)  $22.5 \text{ cm}^2$               (d)  $45 \text{ cm}^2$
- Q.7.** The area of parallelogram is
- (a) base + height              (b) base  $\times$  height              (c) base  $\times$  base              (d) height  $\times$  height
- Q.8.** The base in the area of parallelogram is
- (a)  $\frac{\text{area}}{\text{height}}$               (b)  $\frac{\text{height}}{\text{area}}$               (c) area  $\times$  base              (d) area  $\times$  height
- Q.9.** The height in the area of parallelogram is
- (a)  $\frac{\text{base}}{\text{area}}$               (b)  $\frac{\text{area}}{\text{base}}$               (c) area  $\times$  base              (d) area  $\times$  height
- Q.10.** Which of the following has the formula Base  $\times$  Height
- (a) area of parallelogram              (b) area of quadrilateral  
(c) area of triangle              (d) area of trapezium

Q.11. The area of triangle is

- (a) base  $\times$  height                      (b)  $\frac{1}{2}$   $\times$  base  $\times$  height  
 (c)  $\frac{1}{2}$   $\times$  (base + height)              (d) base + height

Q.12. The height in the area of a triangle

- (a)  $\frac{2 \text{ area}}{\text{base}}$               (b)  $\frac{2 \text{ base}}{\text{area}}$               (c)  $\frac{\text{area}}{2 \text{ base}}$               (d)  $\frac{\text{base}}{2 \text{ area}}$

Q.13. If the area of the triangle is  $36 \text{ cm}^2$  and the height is 3 cm, the base of the triangle will be

- (a) 12 cm              (b) 39 cm              (c) 108 cm              (d) 24 cm

Q.14. The base in the area of triangle is

- (a)  $\frac{\text{area}}{2 \text{ height}}$               (b)  $\frac{2 \text{ area}}{\text{height}}$               (c)  $\frac{2 \text{ height}}{\text{area}}$               (d)  $\frac{\text{height}}{2 \text{ area}}$

Q.15. The distance around a circular region is known as its

- (a) area              (b) diameter of circle              (c) circumference              (d) radius

Q.16. The perimeter of square of side 2.5 m is

- (a) 10.2 m              (b)  $10.2 \text{ m}^2$               (c)  $6.25 \text{ m}^2$               (d) 6.25 m

Q.17. The perimeter of rectangle of length 1.5 cm & breadth 2 cm is

- (a) 3.4 cm              (b) 7 cm              (c) 6 cm              (d) 3.5 cm

Q.18. The area of parallelogram whose base 6 cm & altitude 7 cm is

- (a)  $18 \text{ cm}^2$               (b) 18 cm              (c)  $9 \text{ cm}^2$               (d) 9 cm

Q.19. The height of parallelogram whose area is  $35 \text{ cm}^2$  and altitude 7 cm

- (a) 5 cm              (b)  $5 \text{ cm}^2$               (c) 245 cm              (d)  $245 \text{ cm}^2$

Q.20. In fig. the length of the altitude DF will be

- (a) 14 cm              (b) 56 cm              (c) 8 cm              (d)  $14 \text{ cm}^2$

Q.21. In fig. area of  $\triangle g m$  will be

- (a)  $(8 \times 2) \text{ cm}^2$               (b)  $(3 \times 2) \text{ cm}^2$               (c)  $(8 \times 42) \text{ cm}^2$               (d)  $(8 \times 3) \text{ cm}^2$

Q.22. Area of triangle whose base is 15 cm and corresponding altitude is 6 cm will be

- (a)  $45 \text{ cm}^2$               (b)  $90 \text{ cm}^2$               (c) 45 cm              (d) 90 cm



**Q.23.** Find the area of a right triangle whose base is 3 cm, perpendicular is 2 cm and hypotenuse is 5 cm.

- (a)  $3 \text{ cm}^2$       (b)  $7.5 \text{ cm}^2$       (c)  $5 \text{ cm}^2$       (d) 6 cm

**Q.24.** What will be the area of circular button of radius 7 cm

- (a)  $154 \text{ cm}^2$       (b)  $49 \text{ cm}^2$       (c) 154 cm      (d)  $3.14 \times 7 \text{ cm}^2$

**Q.25.** The circumference of circle whose diameter is 14 cm will be

- (a) 44 cm      (b) 88 cm      (c)  $44 \text{ cm}^2$       (d)  $88 \text{ cm}^2$

**Q.26.** The perimeter of circle is its

- (a) area      (b) circumference      (c) radius      (d) diameter

**Q.27.** Diameter is \_\_\_\_\_ .

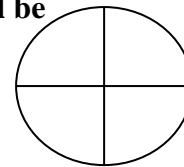
- (a) twice radius      (b) half radius      (c) equal to radius      (d) one-third of radius

**Q.28.**  $\pi$  (pi) is

- (a) ratio of circumference to diameter      (b) diameter to circumference  
(c)  $21/17$       (d) 3.41

**Q.29.** If the area of circle is  $44 \text{ cm}^2$ , the are of shaded portion will be

- (a)  $11 \text{ cm}^2$       (b) 11 cm  
(c)  $22 \text{ cm}^2$       (d)  $22 \text{ cm}^2$



**Q.30.** If the radius of pipe is 1 cm, the circumference of pipe will be

- (a) 62.8 cm      (b) 6.28 cm      (c)  $62.8 \text{ cm}^2$       (d) 6.28 cm

**Q.31.** The circumference of a circle is

- (a)  $\pi \times r$       (b)  $\pi \times r^2$       (c)  $\pi \times 2r$       (d)  $\pi + 2r$

**Q.32.** The diameter of a circle is

- (a)  $r^2$       (b) 2r      (c)  $2 \pi r^3$       (d)  $\pi r^2$

**Q.33.** Which of the following is an example of circle?

- (a) a chair      (b) a bottle cap      (c) a cup      (d) a table

**Q.34.** The area of a circle is

- (a)  $2 \pi r$       (b)  $2 \pi r^2$       (c)  $\pi r^2$       (d)  $\pi d$

**Q.35.**  $1 \text{ m}^2 =$  \_\_\_\_\_ .

- (a)  $100 \text{ cm}^2$       (b)  $1000 \text{ cm}^2$       (c)  $10000 \text{ m}^2$       (d)  $10000 \text{ cm}^2$

Q.36. One hectare is equal to

- (a)  $100 \text{ m}^2$       (b)  $1000 \text{ m}^2$       (c)  $10,000 \text{ m}^2$       (d)  $10,000 \text{ m}$

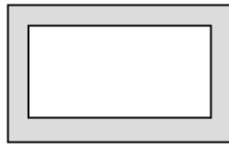
Q.37. The circumference of a circle with radius 7 cm is

- (a) 11 cm      (b) 22 cm      (c) 44 cm      (d) 49 cm

Q.38. The value of constant  $\pi$  is

- (a) 31.4      (b)  $\frac{22}{7}$       (c)  $\frac{7}{22}$       (d) 314

Q.39. In fig. the area of larger rectangle is  $1750 \text{ m}^2$  and the area of smaller rectangle is  $1350 \text{ m}^2$



- (a)  $3100 \text{ m}^2$       (b)  $400 \text{ m}^2$       (c)  $750 \text{ m}^2$       (d)  $350 \text{ m}^2$

Q.40. In fig., the area of rectangular sheet is  $50 \text{ cm}^2$  and the area of circle inside the sheet is  $15 \text{ cm}^2$  cut from the sheet, then the area of remaining sheet will be



- (a)  $35 \text{ cm}^2$       (b)  $65 \text{ cm}^2$       (c) 35 cm      (d) 65 cm

ANSWER KEY

MENSURATION

CLASS VII

QUESTIONS	CORRECT ANSWER	QUESTIONS	CORRECT ANSWER
Q.1.	(a)	Q.21.	(a)
Q.2.	(a)	Q.22.	(a)
Q.3.	(a)	Q.23.	(b)
Q.4.	(c)	Q.24.	(a)
Q.5.	(b)	Q.25.	(c)
Q.6.	(a)	Q.26.	(b)
Q.7.	(b)	Q.27.	(a)
Q.8.	(a)	Q.28.	(a)
Q.9.	(b)	Q.29.	(a)
Q.10.	(a)	Q.30.	(b)
Q.11.	(b)	Q.31.	(c)
Q.12.	(a)	Q.32.	(b)
Q.13.	(d)	Q.33.	(b)
Q.14.	(b)	Q.34.	(c)
Q.15.	(c)	Q.35.	(d)
Q.16.	(a)	Q.36.	(c)
Q.17.	(b)	Q.37.	(c)
Q.18.	(b)	Q.38.	(b)
Q.19.	(a)	Q.39.	(b)
Q.20.	(a)	Q.40.	(a)

ANALYSE YOUR PERFORMANCE

QUESTIONS	TALLY MARKS	REVISE THESE CONCEPTS
1, 3, 7, 8, 9, 11, 12, 14, 27, 31, 34		Knowledge of formulae
15, 26, 28, 32, 36, 38		Concept of terms
2, 4, 6, 10, 21, 23, 24, 29, 33, 35, 39, 40		Understanding of concepts
5, 13, 16, 17, 18, 19, 20, 22, 24, 30, 37		Applications

CLASS VII

**MULTIPLE CHOICE QUESTIONS**  
**CLASS VII**  
**TOPIC: ALGEBRAIC EXPRESSION**

TIME: 30 MINUTES

TOTAL QUESTIONS=40

**Q1: Write the expression for the statement: the sum of three times  $x$  and 11**

- (a)  $x+3+11$       (b)  $3x+11$       (c)  $3+11x$       (d)  $3x-11$

**Q2 : Write an expression : Raju s father s age is 5 years more than 3 times Raju s age . If Raju s age is  $x$  years , then father's age is**

- (a)  $3x+5$       (b)  $5-3x$       (c)  $3x-5$       (d)  $15x$

**Q3 : Identify the coefficient of  $x$  in expression  $8-x+y$**

- (a) 0      (b) 8      (c) -1      (d) 1

**Q4: The number of terms in  $4p^2q - 3pq^2 + 5$  is**

- (a) 7      (b) 3      (c) 1      (d) 4

**Q5: The expression for sum of numbers  $a$  and  $b$  subtracted from their product is**

- (a)  $a+b - ab$       (b)  $ab-a+b$       (c)  $ab-(a+b)$       (d)  $ab + a - b$ .

**Q6: The sum of  $mn+5-2$  and  $mn+3$  is**

- (a)  $2mn+3$       (b) 6      (c)  $2mn+8$       (d)  $2mn+6$ .

**Q7: What is the statement for the expression  $3mn+5$**

- (a) 5 more than  $\frac{1}{3}$  of product of  $m$  and  $n$   
 (b) number 5 added to product of number  $m$  and  $n$   
 (c) number 5 added to 3 times the product of  $m$  and  $n$ .  
 (d) 5 more than 3 times the product of the numbers  $m$  and  $n$

**Q8 : The constant term in the expression  $1+x^2+x$  is**

- (a) 1      (b) 2      (c)  $x$       (d)  $x^2$

**Q9: The coefficient of  $y^3$  in the expression  $y - y^3 + y^2$  is**

- (a) 1      (b)  $y$       (c)  $-y^3$       (d) -1

**Q10: The number of terms in the expression  $1.2ab - 2.4 b + 3.6a$  is**

- (a) 1.2      (b) -2.4      (c) 3.6a      (d) 3

**Q11: What is the numerical coefficient of  $y^2$  in the expression  $2x^2y - 15xy^2 + 7y$**

- (a)  $-15x$       (b) -15      (c) 2      (d) 7

Q12: The expression  $x + y - xy$  is

- (a) Monomial      (b) Binomial      (c) Trinomial      (d) Quadrinomial

Q13: The expression  $xyz$  is

- (a) Monomial      (b) Binomial      (c) Trinomial      (d) Zero polynomial

Q14: From the following expressions  $10pq, 7p, 8q, -p^2q^2, -7pq, -23, ab, 3a, b$ . The like terms are

- (a)  $3, 7p$       (b)  $10pq, -7pq$       (c)  $ab, 3a, b$       (d)  $10pq, 7p, 8q$

Q15: From the following expressions  $3ab, a^2, b^2, a, 5ab, -2ab, 2a^2$  the three terms are

- (a)  $3ab, 5ab, -2ab$       (b)  $a^2, a, 2a^2$       (c)  $3ab, a^2, b^2$       (d)  $2a^2, a^2, a$

Q16: Sum of  $3m$  and  $2n$  is

- (a)  $5mn$       (b)  $3m+2n$       (c)  $5m$       (d)  $5n$

Q17: Sum of  $xy, x+y$  and  $y+xy$  is

- (a)  $2xy + 2x + y$       (b)  $3xy + 2y$       (c)  $2xy + x + y$       (d)  $2xy + x + 2y$

Q18: The value of  $21b - 32 + 7b - 20b$  is

- (a)  $48b - 32$       (b)  $-8b - 32$       (c)  $8b - 32$       (d)  $28b - 52$

Q19: Subtract  $a - b$  from  $a + b$  the result is

- (a)  $2a + 2b$       (b)  $2a$       (c)  $2b$       (d)  $2a - 2b$

Q20: Subtracting  $-5y^2$  from  $y^2$ , the result is

- (a)  $-4y^2$       (b)  $6y^2$       (c)  $4y^2$       (d)  $-6y^2$

Q21: The value of expression  $5n - 2$ , when  $n = -2$  is

- (a)  $-12$       (b)  $8$       (c)  $1$       (d)  $-8$

Q22: The value of expression  $7a - 4b$  for  $a = 3, b = 2$  is

- (a)  $13$       (b)  $7a - 6b$       (c)  $21a - 8b$       (d)  $29$

Q23: When  $x = 0, y = -1$ , then the value of expression  $2x + 2y$  is

- (a)  $4$       (b)  $0$       (c)  $-2$       (d)  $2$

Q24: Factors of the term  $15x^2$  in the expression  $15x^2 - 13x$  are

- (a)  $15, x, x$       (b)  $15, -13$       (c)  $15x^2, -13x$       (d)  $15$

Q25: Factors of the terms  $-4pq^2$  in the expression  $9p^2q^2 - 4pq^2$  are

- (a)  $9p^2q^2, -4pq^2$       (b)  $9, -4$       (c)  $-4, p, q, q$       (d)  $-4$

Q26: If the length of each side of the equilateral triangle is  $l$ , then the perimeter of the equilateral triangle is

- (a) 3l                      (b) 3+l                      (c) 3-l                      (d) l/3

**Q27: Which of the following is monomial**

- (a)  $2x + 3$                       (b)  $2x$                       (c)  $4x + 2y + 3$                       (d)  $4y + 5x + z - 1$

**Q28: Which of the following is trinomial**

- (a)  $2a + 6b - 1$                       (b) 1                      (c)  $5a - 7$                       (d)  $a + b + c - 3$

**Q29: Terms with factors y in the expression  $8 + xy + xyz$  are**

- (a)  $xy, xyz$                       (b)  $x, xz$                       (c)  $8, xy, xyz$                       (d)  $y, xz$

**Q30: Identify the terms in the expression  $x + y + 1$  which are not constant**

- (a)  $x, y, 1$                       (b)  $x, y$                       (c)  $x, 1$                       (d)  $y, 1$

**Q31: The value of expression  $4x - 3$  at  $x = 2$  is**

- (a) -4                      (b) 5                      (c) 4                      (d) 2

**Q32: The value of expression  $5n^2 + 5n - 2$  for  $n = -2$  is**

- (a) 13                      (b) 3                      (c) 8                      (d) 12

**Q33: The value of expression  $2a^2 + 2b^2 - ab$  for  $a = 2, b = 1$  is**

- (a) 2                      (b) 8                      (c) 6                      (d) 10

**Q34: The value of  $x + 7 + 4(x - 5)$  for  $x = 2$**

- (a) -3                      (b) 31                      (c) 12                      (d) 37

**Q35: The value of expression  $2a - 2b - 4 - 5 + a$  at  $a = 1, b = -2$**

- (a) 10                      (b) -2                      (c) 12                      (d) -4

**Q36: What must be subtracted from  $2a + b$  to get  $2a - b$**

- (a)  $2b$                       (b)  $4a$                       (c) 0                      (d)  $4a + 4b$

**Q37: What must be added to  $3x + y$  to get  $2x + 3y$**

- (a)  $5x + 4y$                       (b)  $-x + 2y$                       (c)  $x - 2y$                       (d)  $x + 2y$

**Q38: Subtract  $a + 2b$  from sum of  $a - b$  and  $2a + b$**

- (a)  $2a - 2b$                       (b)  $4a + 2b$                       (c)  $2b$                       (d)  $-2a + 2b$

**Q39: On simplifying  $(a + b - 3) - (b - a + 3) + (a - b + 3)$  the result is**

- (a)  $a - b + 3$                       (b)  $a - b - 3$                       (c)  $3a - b - 3$                       (d)  $3a + b + 3$

**Q40: What should be value of 'a' if  $y^2 + y - a$  equals to 3 for  $y = 1$**

- (a) -1                      (b) -5                      (c) 5                      (d) 0

**ANSWER KEY**

QUESTIONS	CORRECT ANSWER	QUESTIONS	CORRECT ANSWER
Q.1.	<u>b</u>	Q.21.	<u>a</u>
Q.2.	<u>a</u>	Q.22.	<u>a</u>
Q.3.	<u>c</u>	Q.23.	<u>c</u>
Q.4.	<u>b</u>	Q.24.	<u>a</u>
Q.5.	<u>c</u>	Q.25.	<u>c</u>
Q.6.	<u>d</u>	Q.26.	<u>a</u>
Q.7.	<u>c</u>	Q.27.	<u>b</u>
Q.8.	<u>a</u>	Q.28.	<u>c</u>
Q.9.	<u>d</u>	Q.29.	<u>a</u>
Q.10.	<u>d</u>	Q.30.	<u>b</u>
Q.11.	<u>b</u>	Q.31.	<u>b</u>
Q.12.	<u>c</u>	Q.32.	<u>c</u>
Q.13.	<u>a</u>	Q.33.	<u>b</u>
Q.14.	<u>b</u>	Q.34.	<u>a</u>
Q.15.	<u>c</u>	Q.35.	<u>b</u>
Q.16.	<u>b</u>	Q.36.	<u>a</u>
Q.17.	<u>d</u>	Q.37.	<u>b</u>
Q.18.	<u>c</u>	Q.38.	<u>a</u>
Q.19.	<u>c</u>	Q.39.	<u>c</u>
Q.20.	<u>b</u>	Q.40.	<u>a</u>

**KEY FOR ANALYSIS**

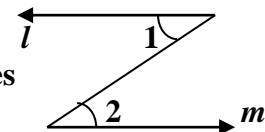
<u>Basic Concepts</u>	<u>Question no.</u>
Formation of algebraic expression	<u>1, 2, 7, 26,</u>
Concept of terms , factors and coefficient	<u>3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15,24, 25, 27, 28, 29, 30</u>
Addition and subtraction	<u>6, 16, 17, 18, 19, 20, 36, 37, 38, 39</u>
value of an expression	<u>21, 22, 23, 31, 32, 33, 34, 35, 40</u>

MULTIPLE CHOICE QUESTIONS  
CLASS VII  
TOPIC: GEOMETRY

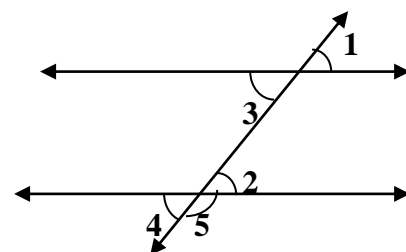
TIME: 30 MINUTES

TOTAL QUESTIONS=40

- A line that intersects two or more lines at distinct points is called  
(a) Parallel (b) transversal (c) intersecting (d) none of these
- If two adjacent angles are supplementary, then they form \_\_\_\_\_.  
(a) Corresponding angles (b) vertically opposite angles  
(c) a linear pair of angles (d) a ray
- If two angles are supplementary then the sum of their measures is \_\_\_\_\_.  
(a)  $90^\circ$  (b)  $180^\circ$  (c)  $360^\circ$  (d)  $45^\circ$
- If two angles are complementary, then the sum of their measures is \_\_\_\_\_.  
(a)  $45^\circ$  (b)  $180^\circ$  (c)  $90^\circ$  (d)  $360^\circ$
- If two lines intersect at a point, then the vertically opposite angles are always \_\_\_\_\_.  
(a) equal (b) unequal (c) supplementary (d) complementary
- Two angles forming a linear pair are \_\_\_\_\_.  
(a) equal (b) supplementary (c) unequal (d) complementary
- If  $l \parallel m$ , then  $\angle 1 = \angle 2$  because they are \_\_\_\_\_,  
(a) corresponding angles (b) vertically opposite angles  
(c) alternate interior angles (d) supplementary angles

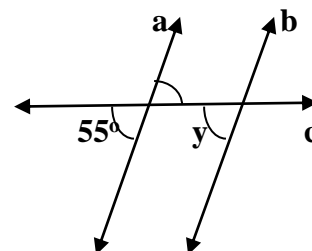


- In fig. pair of alternate interior angles are:  
(a)  $\angle 1, \angle 3$  (b)  $\angle 2, \angle 3$   
(c)  $\angle 2, \angle 5$  (d)  $\angle 1, \angle 2$



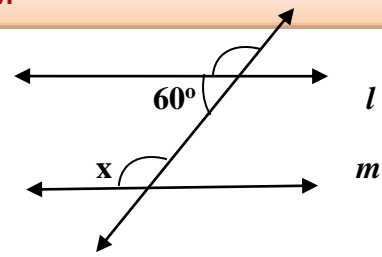
- If two parallel lines are cut by a transversal, each pair of the corresponding angles are \_\_\_\_\_ in Measure.  
(a) Equal (b) unequal (c) supplementary (d) complementary

- Line  $a \parallel b$ ,  $c$  is a transversal then  $\angle y = ?$   
(a)  $90^\circ$  (b)  $125^\circ$  (c)  $55^\circ$  (d)  $180^\circ$



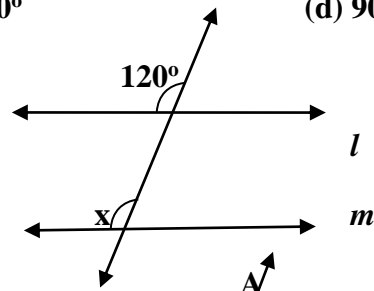


11. Lines  $l \parallel m$ ,  $t$  is a transversal then  $\angle x = ?$



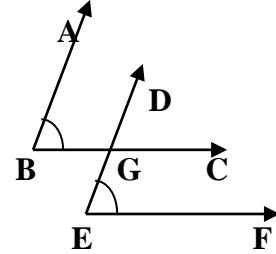
- (a)  $120^\circ$                       (b)  $60^\circ$                       (c)  $180^\circ$                       (d)  $90^\circ$                        $t$

12. Lines  $l \parallel m$ ,  $t$  is a transversal then  $\angle x = ?$



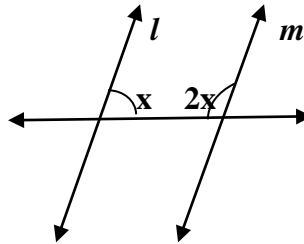
- (a)  $120^\circ$                       (b)  $60^\circ$                       (c)  $180^\circ$                       (d)  $90^\circ$

13. If arms of two angles are parallel, then find the  $\angle DEF$



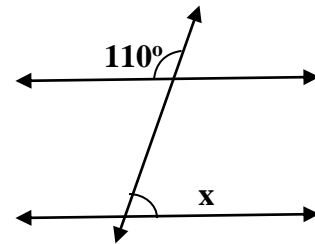
- (a)  $15^\circ$                       (b)  $90^\circ$                       (c)  $180^\circ$                       (d)  $75^\circ$

14. Find  $x$  if  $l \parallel m$



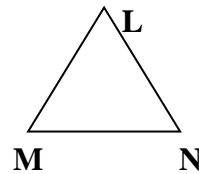
- (a)  $30^\circ$                       (b)  $60^\circ$                       (c)  $90^\circ$                       (d)  $180^\circ$

15. Find the value of  $x$  if  $l \parallel m$



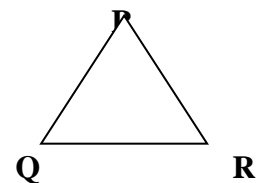
- (a)  $110^\circ$                       (b)  $70^\circ$                       (c)  $90^\circ$                       (d)  $180^\circ$

16. Angle opposite to the side LM of  $\Delta$  LMN



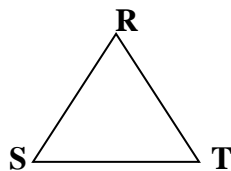
- (a)  $\angle N$                       (b)  $\angle L$                       (c)  $\angle M$                       (d) none of these

17. Side opposite to the vertex Q of  $\Delta$  PQR



- (a) PQ                      (b) QR                      (c) PR                      (d) none of these

18. Vertex opposite to the side RT of  $\Delta$  RST



- (a) S                      (b) T                      (c) R                      (d) none of these

19. How many medians a triangle can have?

- (a) 2            (b) 1            (c) 3            (d) 0

20. A/an \_\_\_\_\_ connect a vertex of a triangle to the mid point of the opposite side.

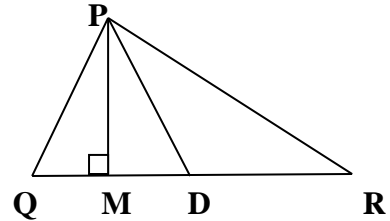
- (a) altitude    (b) median    (c) vertex    (d) none of these

21. How many altitude can a triangle have?

- (a) 1            (b) 2            (c) 3            (d) 4

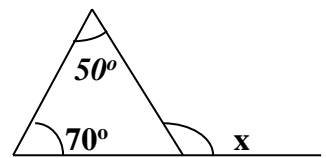
22. In  $\triangle PQR$ ,  $PM$  is

- (a) Median    (b) altitude    (c) bisector    (d) side



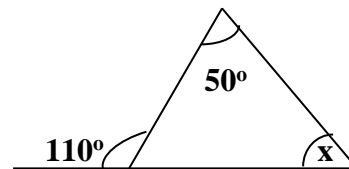
23. Find the value of  $x$

- (a)  $50^\circ$         (b)  $70^\circ$         (c)  $120^\circ$         (d)  $180^\circ$



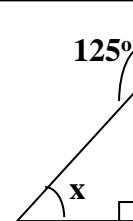
24. Find the value of  $x$

- (a)  $60^\circ$         (b)  $110^\circ$         (c)  $50^\circ$         (d)  $180^\circ$



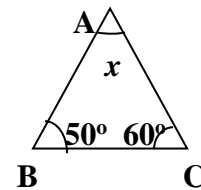
25. The value of  $x$  in the adjoining figure is

- (a)  $125^\circ$         (b)  $90^\circ$         (c) 180        (d)  $35^\circ$



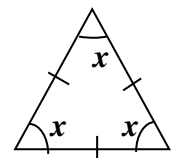
26. Find the value of unknown  $x$

- (a)  $50^\circ$         (b)  $60^\circ$         (c)  $70^\circ$         (d)  $90^\circ$



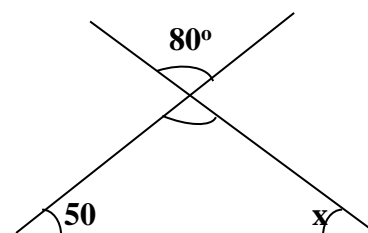
27. Find the value of  $x$

- (a)  $20^\circ$         (b)  $60^\circ$         (c)  $90^\circ$         (d)  $180^\circ$



28. What is the value of  $x$  in the adjoining figure

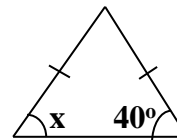
- (a)  $50^\circ$         (b)  $80^\circ$         (c)  $130^\circ$         (d)  $180^\circ$



29. A triangle in which two sides are of equal lengths is called \_\_\_\_\_.

- (a) Equilateral    (b) Isosceles    (c) Scalene    (d) Acute angled triangle

30. Find the value of  $x$  in this figure.  
 (a)  $40^\circ$  (b)  $60^\circ$  (c)  $90^\circ$  (d)  $180^\circ$



31. The sum of the lengths of any two sides of a triangle is \_\_\_\_\_ the third side of the triangle.  
 (a) less than (b) greater than (c) double (d) half

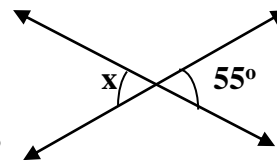
32. Which pair of following angles are complementary ?  
 (a)  $70^\circ, 20^\circ$  (b)  $75^\circ, 25^\circ$  (c)  $48^\circ, 52^\circ$  (d)  $35^\circ, 55^\circ$

33. Which pair of following angles are supplementary ?  
 (a)  $110^\circ, 50^\circ$  (b)  $105^\circ, 65^\circ$  (c)  $50^\circ, 130^\circ$  (d)  $45^\circ, 45^\circ$

34. What is complement of  $63^\circ$ ?  
 (a)  $18^\circ$  (b)  $27^\circ$  (c)  $30^\circ$  (d)  $21^\circ$

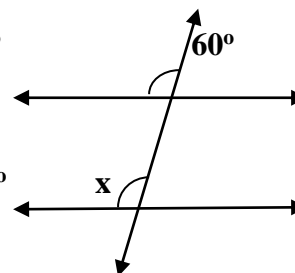
35. Find the supplement of  $105^\circ$ .  
 (a)  $80^\circ$  (b)  $65^\circ$  (c)  $75^\circ$  (d)  $100^\circ$

36. Find the value of  $x$  in given figure  
 (a)  $180^\circ$  (b)  $55^\circ$  (c)  $90^\circ$  (d)  $125^\circ$

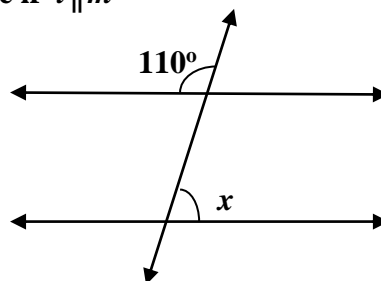


37. If two angles are complementary, then the sum of their measures is \_\_\_\_\_ .  
 (a)  $180^\circ$  (b)  $90^\circ$  (c)  $360^\circ$  (d)  $100^\circ$

38. What is the measure of angle  $x$   
 (a)  $90^\circ$  (b)  $60^\circ$  (c)  $180^\circ$  (d)  $120^\circ$



39. Find the value of  $x$  in figure if  $l \parallel m$



- (a)  $70^\circ$  (b)  $110^\circ$  (c)  $180^\circ$  (d)  $100^\circ$

40. In the Pythagoras property , the triangle must be \_\_\_\_\_ .  
 (a) acute angled (b) right angled (c) obtuse angled (d) none of these.

## Answer Key

1	(b)	21	(c)
2	(c)	22	(b)
3	(b)	23	(c)
4	(c)	24	(a)
5	(a)	25	(d)
6	(b)	26	(c)
7	(c)	27	(b)
8	(b)	28	(a)
9	(a)	29	(b)
10	(c)	30	(a)
11	(a)	31	(b)
12	(a)	32	(a)
13	(d)	33	(c)
14	(b)	34	(b)
15	(b)	35	(c)
16	(c)	36	(b)
17	(c)	37	(b)
18	(a)	38	(b)
19	(c)	39	(a)
20	(b)	40	(b)

## Analyze Your Performance

Questions	Tally Marks	Revise These concepts
2,3,4,5,6,32,33,34,35,37		Pair of angles Complementary angles, supplementary angles, adjacent angles
1,36		Intersecting lines
7,8,9,10,11,12,13,14,15,38,39		Angles made by a transversal
16,17,18,19,20,21,22,23,24,25, 26,27,28,29,30,31,40		Triangles – altitude, median, exterior angle property, angle sum property

**MULTIPLE CHOICE QUESTIONS**  
**CLASS VII**  
**TOPIC: EXPONENT AND POWERS**

TIME: 30 MINUTES

TOTAL QUESTIONS=40

Q 1. Simplify  $2^2$ 

- (a) 3                      (b) 10                      (c) 4                      (d) 7

Q 2. The Exponent in the expression  $3^7$  is \_\_\_\_\_ .

- (a) 1                      (b) 7                      (c) 0                      (d) 3

Q 3. The value of  $3^0$  is \_\_\_\_\_ .

- (a) 0                      (b) 3                      (c) 1                      (d) None of these

Q 4. Multiplicative inverse of  $1/7$  is \_\_\_\_\_ .

- (a) 49                      (b) 5                      (c) 7                      (d) -14

Q 5. Fill in the Blank  $a^m \div a^n = a^{\dots\dots}$  Where m and n are natural numbers:-

- (a) mn                      (b) m + n                      (c) m - n                      (d) m ÷ n

Q 6. Express  $(2a)^4$  in exponential form.

- (a)  $4a^3$                       (b)  $16a^4$                       (c)  $2a^4$                       (d)  $8a^4$

Q 7. The value of  $1/3^2$  is equal to \_\_\_\_\_ .

- (a)  $1/9$                       (b) 1                      (c) -6                      (d)  $1/3$

Q 8. Find the value of  $11^2$ 

- (a) 22                      (b) 9                      (c) 121                      (d) 13

Q 9. In simplified form  $(3^0 + 4^0 + 5^0)^0$  is equals to

- (a) 12                      (b) 3                      (c) 12                      (d) 1

Q 10. Find the value of  $(2/3)^2$ 

- (a)  $4/9$                       (b)  $-2/9$                       (c)  $9/4$                       (d) 0

Q 11. In standard form 52,00,00,000 is equal to \_\_\_\_\_ .

- (a)  $5.2 \times 10^7$                       (b)  $5.2 \times 10^8$                       (c)  $52 \times 10^8$                       (d)  $52 \times 100,00,000$

Q 12. Usual form of the expression  $10^4$  is given by \_\_\_\_\_ .

- (a) 100,00                      (b) 1,0000                      (c)  $10 \times 10^4$                       (d) 10,000

- Q 13. 1 micron is equals to \_\_\_\_\_ .  
 (a)  $1/1000000$  m      (b)  $10^6$  m      (c)  $10^5$  m      (d)  $10^7$  m
- Q 14. The approximate distance of moon from the earth is 384,467,000 m and in exponential form this distance can be written as \_\_\_\_\_ .  
 (a)  $3.84,467 \times 10^8$  m    (b)  $384,467 \times 10^{-8}$  m    (c)  $384,467 \times 10^{-9}$  m    (d)  $3.844,67 \times 10^{-13}$  m
- Q 15.  $7 \times 10^{-5}$  m is the standard form of which of the following \_\_\_\_\_ .  
 (a) 0.0007 m      (b) 0.000007 m      (c) 0.0000007 m      (d) 0.00007 m
- Q 16. The standard form of 4050000 is given by \_\_\_\_\_ .  
 (a)  $4.05 \times 10^6$       (b)  $40.5 \times 10^9$       (c)  $405 \times 10^6$       (d)  $4.05 \times 10^{-6}$
- Q 17. Which one of the following is the value of  $1^{15}$   
 (a) 0      (b) 15      (c) 1      (d) None of these
- Q 18. Fill in the blank :  $(-1)^{\text{even number}} =$  \_\_\_\_\_ .  
 (a)  $2 \times (-1)$       (b) 1      (c) 0      (d)  $-1^3$
- Q 19. Fill in the blank :  $(-1)^{\text{odd number}} =$  \_\_\_\_\_ .  
 (a) 1      (b) -1      (c) 2      (d) 0
- Q 20. Value of  $(3^0 + 2^0) \times 5^0$  is  
 (a) 1      (b) 25      (c) 2      (d) 0
- Q 21. The value of  $7^2$  is \_\_\_\_\_ .  
 (a) 7      (b) 49      (c) 2      (d) 14
- Q 22. The Base in the expression  $8^{10}$  is \_\_\_\_\_ .  
 (a) 10      (b) 2      (c) 8      (d) 800
- Q 23. The value of  $100^0$  is \_\_\_\_\_ .  
 (a) 0      (b) 100      (c) 1      (d) None of these
- Q 24. Find the number from the following expanded form :  $9 \times 10^5 + 2 \times 10^2 + 3 \times 10^1$   
 (a) 900203      (b) 912351      (c) 905302      (d) 900230
- Q 25. Value of  $(2^3)^2$  is given by \_\_\_\_\_ .  
 (a) 64      (b) 32      (c) 12      (d) None of these
- Q 26. The value of  $7^2 \div 7^3$  is given by \_\_\_\_\_ .  
 (a)  $\frac{1}{7}$       (b) 7      (c)  $\frac{1}{14}$       (d) -7

Q 27. The value of  $1/5^2$  is equal to -----.

- (a) -5                      (b) 25                      (c) -15                      (d)  $\frac{1}{25}$

Q 28. In exponential form 140,000,000,000 Kg is given by \_\_\_\_\_ .

- (a)  $1.4 \times 10^{10}$  Kg    (b)  $1.4 \times 10^9$  Kg    (c)  $14 \times 10^8$  Kg    (d)  $1.4 \times 10^{11}$  Kg

Q 29. The expression ,  $(5^2 + 7^2 + 3^2)^0$  is equals to

- (a)  $15^6$                       (b) - 6                      (c) 1                      (d) 83

Q 30. The value of  $(1/6)^2$  is \_\_\_\_\_ .

- (a)  $\frac{1}{12}$                       (b)  $-\frac{2}{3}$                       (c)  $\frac{1}{36}$                       (d) 2

Q 31. In standard form 56700000 is written as \_\_\_\_\_ .

- (a)  $5.67 \times 10^7$                       (b)  $567 \times 10^7$                       (c)  $5.67 \times 10^5$                       (d)  $567 \times 100000$

Q 32. Usual form of the expression  $9 \times 10^{-5}$  is given by \_\_\_\_\_ .

- (a) 0.00009                      (b) 0.000009                      (c)  $90 \times 10^{-4}$                       (d)  $0.09 \times 10^{-3}$

Q 33. The number 86,800,000,000,000,000,000,000 Kg is equal to \_\_\_\_\_ .

- (a)  $8.68 \times 10^{25}$  Kg                      (b)  $868 \times 10^{23}$  Kg                      (c)  $86.8 \times 10^{-25}$  Kg                      (d)  $868 \times 10^{-23}$  m

Q 34. Charge of an electron is 0.000,000,000,000,000,000,16 coulomb and in exponential form it can be written as \_\_\_\_\_ .

- (a)  $16 \times 10^{-18}$  coulomb                      (b)  $1.6 \times 10^{-21}$  coulomb  
(c)  $1.6 \times 10^{-19}$  coulomb                      (d)  $16 \times 10^{-21}$  coulomb

Q 35.  $13 \times 10^{-7}$  Km is the standard form of which of the following \_\_\_\_\_ .

- (a) 0.000000013 Km                      (b) 0.0000013 Km  
(c) 0.000000000013 Km                      (d) 0.00000000013 Km

Q 36. The standard form of 9,030,000,000 is given by \_\_\_\_\_ .

- (a)  $9.03 \times 10^9$                       (b)  $90.3 \times 10^7$                       (c)  $903 \times 10^6$                       (d)  $9.03 \times 10^{-9}$

Q 37. Which one of the following is the value of  $3^5$

- (a) 3                      (b) 15                      (c) 2                      (d) 243

Q 38. Find the value of  $5^0 \times 7^0 \times 3^0$

- (a) 1                      (b)  $\frac{1}{24}$                       (c) 6                      (d)  $\frac{1}{5} \times 7 \times 3$

Q 39. 64 in exponential form is \_\_\_\_\_ .

- (a)  $2^6$                       (b)  $16^2$                       (c)  $1/8^2$                       (d)  $2^4$

Q 40. The value of  $2^0 \times 3^0 \times 4^0$  is

- (a) 1                      (b) 0                      (c) 24                      (d) None of these



**ANSWER KEY**

1. (c)	2. (b)	3. (c)	4. (c)	5. (c)	6. (b)	7.(a)	8.(c)
9. (d)	10. (a)	11. (b)	12.(d)	13. (a)	14. (a)	15.(d)	16.(a)
17. (c)	18. (b)	19. (b)	20.(c)	21. (b)	22.(c)	23. (c)	24.(d)
25. (a)	26.(a)	27. (d)	28. (d)	29.(c)	30.(c)	31.(a)	32.(a)
33. (a)	34.(c)	35.(b)	36.(a)	37.(d)	38.(a)	39.(a)	40.(a)

**ANALYSIS**

<b>QUESTION NUMBERS</b>	<b>TALLY MARKS</b>	<b>CONCEPTS</b>
2 , 17 , 22 , 24		<b>Understanding of Base and Exponents</b>
11 , 12 , 13 , 14 , 15 , 16 , 39 , 31 , 32 , 33 , 34 , 35 , 36		<b>Ability to Express in Exponential Form</b>
1 , 4 , 6 , 7 , 8 , 9 , 10 , 18 , 19 , 25 , 27 , 30 , 37		<b>Simplification of Exponents</b>
3 , 5 , 20 , 21 , 23 , 26 , 28 , 29 , 38 , 40		<b>Applications of Laws of Exponents</b>

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