

**DELHI PUBLIC SCHOOL, JAMMU**  
**REVISION SHEET FOR PT-III**  
**SESSION-(2017-18)**

**Class: VIII**

**Subject: Maths**

**Topic:** 1. Understanding Quadrilateral

2. Algebraic Expressions and Identities
3. Direct and Inverse proportions
4. Factorisation

1. Sum of angles of a polygon is:

- a.  $\frac{n}{2} \times 180$                       b.  $2n \times 180$                       c.  $(n-2) \times 180$                       d.  $(n+2) \times 180$

2.  $(100 + 2)^2 =$

- a. 10204                      b. 10304                      c. 10404                      d. None

3. If 15 workers can built a wall in 48hours. Then workers required to complete the work in 30 hours will be

- a. 26                      b. 28                      c. 24                      d.30

4. Three angles of a quadrilateral are 45, 63 and 100, then measure of 4<sup>th</sup> angle is:

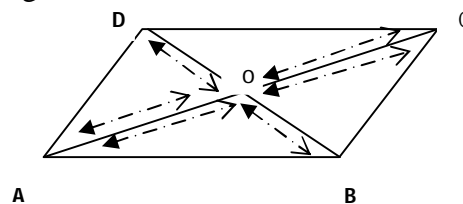
- a. 122                      b. 132                      c. 142                      d. 152

5. Explain how a square is

- a. a quadrilateral                      b. a rhombus                      c. a rectangle

6. Prove that sum of angles of a quad is 360.

7. Find the value of x and y, if ABCD is a IIgm and OA= x+y, OC=8 ,OD= x+3, OB= 10.



8. Subtract  $3p + 4pq - 8q^2 + 5p^2$  from  $10p - 2pq + 5q^2 - 3p^2$

9. Subtract the sum of  $8x - 3y^2 + 4xy$  and  $3xy + 2x + 10y^2$  from  $20x + 15xy - 7y^2$

10. Simplify

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

11. Simplify

$$(8px - 3cx)^2 + (8px + 3cx)^2$$

12. Evaluate by using Identities

- a.  $(9.8)^2$                       b.  $(103)^2$                       c.  $295 \times 305$

13. Cost of 25 kg apples is Rs 225 will be the cost of 13 Kg apples of same variety?
14. A train is moving at a uniform speed of 50km/hr.  
 a. How far will it travel in 35 minutes?  
 b. Find the time required to cover a distance of 225 Km.
15. A can do a piece of work in 10 days and B can do same work in 6 days. How many days will be taken to complete the work if both A and B work together.
16. Pipe A can fill a tank in 15 hours. Find the time taken by pipe B to fill the tank if bith A and B take 6 hours to fill the tank completely.
17. 6 pipes are required to fill a tank in 1 hour 20 minutes. How long will it take if only 5 pipes of the same type are used?
18. Factorize  
 a.  $4x^2 + 20x + 25$   
 b.  $a^2 - b^2 - c^2 + d^2 - 2(ad - bc)$
19. Factorize  
 a.  $9a^2 + 12ab + 4b^2$   
 b.  $x^4 + 2 + \frac{1}{x^4}$   
 c.  $1 - 16x^2 + 64x^4$
20. Factorize  
 a.  $a^{16} - b^{16}$   
 b.  $p^4 - (p - q)^4$
21. Simplify:  $\left(n + \frac{1}{n}\right)^2 + \left(n - \frac{1}{n}\right)^2$
22. Find the value of x if  
 a)  $6x = 29^2 - 23^2$   
 b)  $4x = 98^2 - 88^2$
23. Divide using factorization  
 1.  $25(x-2)(x+4)$  by  $5(x-2)$   
 2.  $64(x^2-25)$  by  $x+5$   
 3.  $7(x^2+6x+9)$  by  $x+3$   
 4.  $1-a^2-2ab-b^2$   
 5.  $(x^4-22x^2y^2+121y^4) - 169$
24. Length of two sides of a Ilgm are in the ratio 3:4. Find the sides of a Ilgm if its perimeter is 28cm .