

- In the given figure, PQ || NO.
- 1. If MP = 5.85 cm , MN = 11.7 cm and MO = 13.3 cm , find MQ



- 2. The altitude and area of an equilateral triangle of side 'a' is

(i) 
$$\frac{1}{2}\sqrt{3} a$$
,  $\frac{1}{4}\sqrt{3} a^2$  (ii)  $\sqrt{3} a$ ,  $\frac{1}{2}\sqrt{3} a^2$  (iii)  $\sqrt{3} a$ ,  $\frac{1}{2}\sqrt{3} a$  (iv)  $\frac{1}{2}\sqrt{3} a$ ,  $\frac{1}{2}\sqrt{3} a^2$ 

3. In the given figure,  $\triangle$ EFG is isosceles right-angled at F and FH  $\perp$  GE.  $\angle$ EFG =



4. In the given figure,  $\triangle$ KLM is a triangle in which KN is the internal bisector of  $\angle$ K and MO || NK meeting LK produced at O .  $\angle$ MOK =



5. In the given figure,  $\triangle EGF$  is right-angled at G, GH  $\perp$  EF. EF = c, GF = a, EG = b and GH = p. Which of the following are true?



6. In the given figure, FH is the angular bisector of  $\angle F \& \angle H$ EF = 20 cm, FG = 20 cm and GH = 18 cm. Find HE



7. In the given figure, given  $\angle KHI = \angle JHK$ , x : y = 9.24 cm : 8.76 cm and p = 19 cm, find q =







(i) 9:6 (ii) 10:3 (iii) 10:9 (iv) 6:10 (v) 11:6

10. The foot of a ladder resting on a wall from the foot of the wall is 15 m. If the height of the top of the ladder from ground is 11 m, find the length of the ladder

(i) 16.60 m (ii) 17.60 m (iii) 19.60 m (iv) 20.60 m (v) 18.60 m

11. In the given figure,  $\triangle$ IJK is right-angled at J. Also, JL  $\perp$  IK. If IL = 12.3 cm, JL = 13.08 cm, then find LK.



(i) 15.90 cm (ii) 14.90 cm (iii) 11.90 cm (iv) 13.90 cm (v) 12.90 cm

12. In the given figure,  $\angle$  IFG =  $\angle$  HFI and FI || JH and FG = 15 cm, GI = 8 cm and IH = 10 cm. Find FJ



(i) 19.75 cm (ii) 17.75 cm (iii) 20.75 cm (iv) 18.75 cm (v) 16.75 cm





14. In the given figure, in  $\triangle$ GHI, 'O' is a point inside the triangle. OJ  $\perp$  HI, OK  $\perp$  GI and OL  $\perp$  GH. Then



In the given figure, three lines I, m and n are such that I || m || n.

15. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.







(i) 8.57 cm (ii) 10.57 cm (iii) 7.57 cm (iv) 9.57 cm (v) 6.57 cm

18. In the given figure,  $\angle HIK = 48.62^{\circ}$ , find the value of x =



In the given figure,  ${\scriptstyle \bigtriangleup}\mathsf{CDE}$  and  ${\scriptstyle \bigtriangleup}\mathsf{QRS}$  are such that

19.  $\angle D = \angle R$  and  $\angle E = \angle S$ .

Identify the property by which the two triangles are similar







21. In the given figure, the altitudes OE and FP of  $\triangle$ DEF meet at N.  $\triangle$ NEF ~



In the given figure, the parallelogram IJKL and the triangle  $\triangle$ MIJ are on the same bases and between the same 22. parallels.

The area of the  $\triangle$ MIJ is x sq.cm. The area of the parallelogram is



 $\begin{array}{l} \text{Two poles of heights 10 m and 17 m stand vertically on a plane ground. If the distance between their feet is 15 }\\ \text{m, find the distance between their tops} \end{array}$ 

(i) 14.55 m (ii) 17.55 m (iii) 18.55 m (iv) 15.55 m (v) 16.55 m

24. A vehicle goes 13 km East and then 10 km North. How far is it from its starting point ?

(i) 14.40 km (ii) 16.40 km (iii) 15.40 km (iv) 18.40 km (v) 17.40 km



Assignment Key						
1) (v)	2) (i)	3) (iii)	4) (iv)	5) (ii)	6) (iv)	
7) (iii)	8) (v)	9) (iv)	10) (v)	11) (iv)	12) (iv)	
13) (i)	14) (ii)	15) (ii)	16) (iv)	17) (i)	18) (v)	
19) (iv)	20) (ii)	21) (v)	22) (iv)	23) (v)	24) (ii)	
25) (iii)						

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