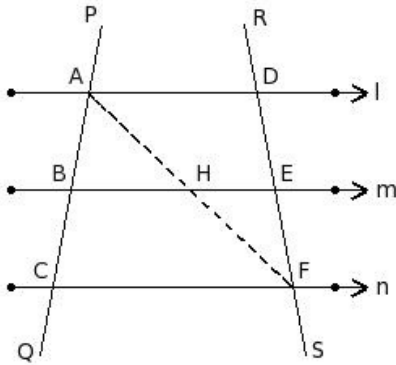




In the given figure, three lines l , m and n are such that $l \parallel m \parallel n$.

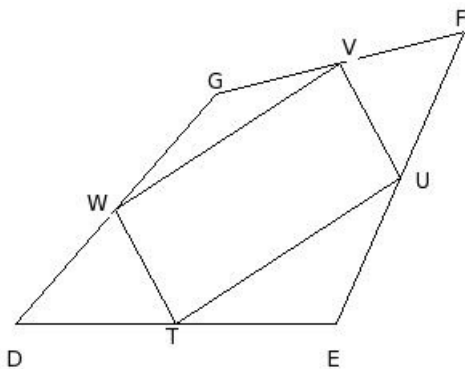
1. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

$\triangle FDA \sim$



- (i) $\triangle FEH$ (ii) $\triangle DCF$ (iii) $\triangle ACF$ (iv) $\triangle DAE$ (v) $\triangle ABH$

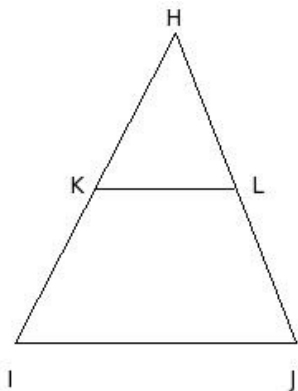
2. $DEFG$ is a quadrilateral. T , U , V and W are mid-points of DE , EF , FG and GD respectively. If $DF = 33$ cm and $EG = 16$ cm, find the measure of the sides of $TUVW$.



- (i) 17 cm, 8 cm, 17 cm, 8 cm (ii) 16.5 cm, 8 cm, 16.5 cm, 8 cm (iii) 16.5 cm, 7 cm, 16.5 cm, 7 cm
(iv) 16.5 cm, 6 cm, 16.5 cm, 6 cm (v) 18 cm, 8 cm, 18 cm, 8 cm

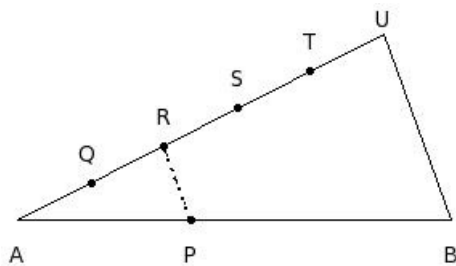
In the given figure $\triangle HIJ$,

3. K is the mid-point of \overline{HI} and $\overline{KL} \parallel \overline{IJ}$, then $HL =$



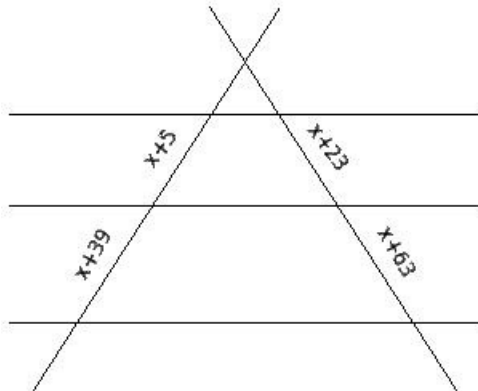
- (i) KI (ii) HI (iii) HK (iv) JH (v) LJ

4. In the given figure, if A, Q, R, S, T, U are equidistant and $RP \parallel UB$ and $AB = 27$ cm. Find AP



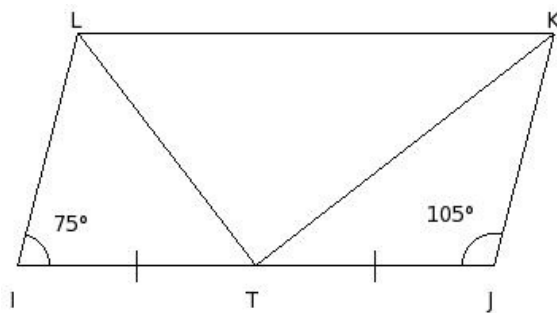
- (i) 10.80 cm (ii) 12.80 cm (iii) 8.80 cm (iv) 9.80 cm (v) 11.80 cm

5. From the given figure and values, find x



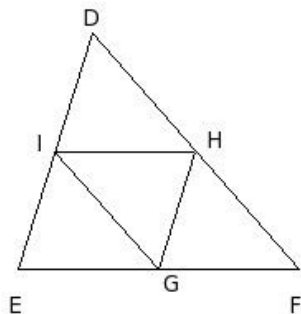
- (i) (100,97) (ii) (99,99) (iii) (97,97) (iv) (97,96) (v) (98,98)

6. In the given figure, IJKL is a parallelogram such that T is the mid-point of IJ and $IJ = 2LI$. Find $\angle LTK$



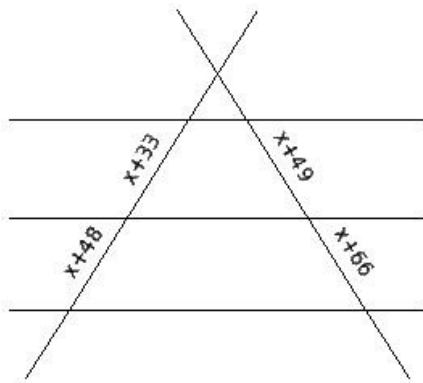
- (i) 92° (ii) 89° (iii) 88° (iv) 90° (v) 91°

7. In the given figure, the area of the $\triangle DEF$ is x sq.cm. G,H,I are the mid-points of the sides EF, FD and DE respectively. The area of the $\triangle GHI$ is



- (i) $\frac{1}{3}$ of area of $\triangle DEF$ (ii) $\frac{3}{4}$ of area of $\triangle DEF$ (iii) $\frac{1}{2}$ of area of $\triangle DEF$ (iv) $\frac{1}{4}$ of area of $\triangle DEF$
 (v) $\frac{2}{3}$ of area of $\triangle DEF$

8. From the given figure and values, find x

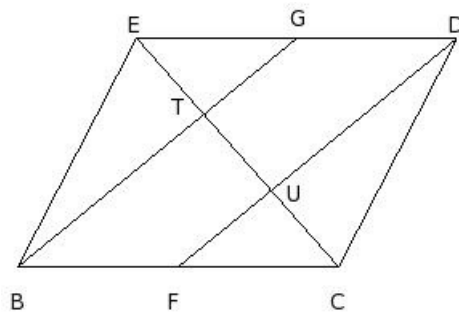


- (i) (89,87) (ii) (87,87) (iii) (88,88) (iv) (87,86) (v) (89,89)

In the given figure, BCDE is a parallelogram

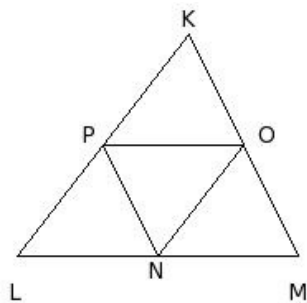
9. such that F and G are mid-points of sides BC & DE.

BG meets CE at T and DF meets CE at U. Given CE = 19 cm, find CU



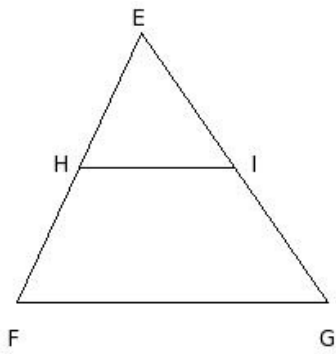
- (i) 8.33 cm (ii) 5.33 cm (iii) 7.33 cm (iv) 4.33 cm (v) 6.33 cm

10. In the given figure, the area of the $\triangle KLM$ is x sq.cm. N,O,P are the mid-points of the sides LM, MK and KL respectively. The area of the $\triangle NOP$ is



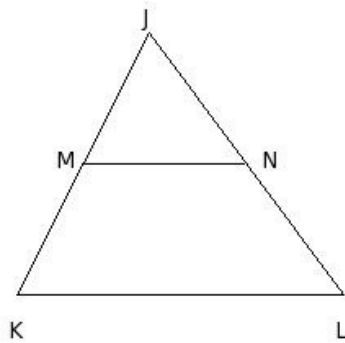
- (i) $\frac{3}{4}$ of area of $\triangle KLM$ (ii) $\frac{1}{2}$ of area of $\triangle KLM$ (iii) $\frac{1}{3}$ of area of $\triangle KLM$ (iv) $\frac{2}{3}$ of area of $\triangle KLM$
 (v) $\frac{1}{4}$ of area of $\triangle KLM$

11. In the given figure $\triangle EFG$,
H is the mid-point of \overline{EF} and $\overline{HI} \parallel \overline{FG}$, then $EH =$



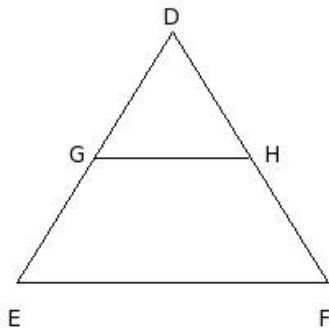
- (i) EF (ii) GE (iii) IG (iv) HF (v) EI

12. In the given figure $\triangle JKL$,
M is the mid-point of \overline{JK} and $\overline{MN} \parallel \overline{KL}$, then $JN =$



- (i) JK (ii) LJ (iii) NL (iv) MK (v) JM

13. In the given figure $\triangle DEF$,
G is the mid-point of \overline{DE} and $\overline{GH} \parallel \overline{EF}$, then $DH =$

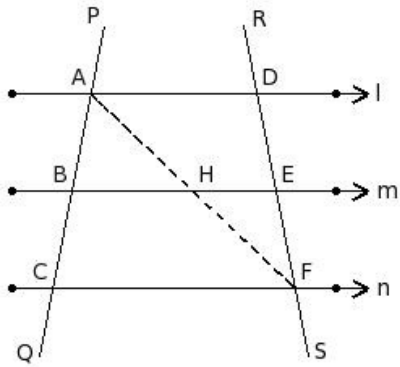


- (i) DG (ii) $\frac{FD}{2}$ (iii) EF (iv) $\frac{DE}{2}$ (v) $\frac{EF}{2}$

In the given figure, three lines l , m and n are such that $l \parallel m \parallel n$.

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

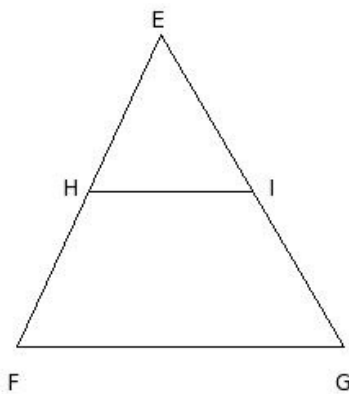
$\angle BHA =$



- (i) $\angle DAF$ (ii) $\angle AFD$ (iii) $\angle EHF$ (iv) $\angle HFE$ (v) $\angle CFA$

In the given figure $\triangle EFG$,

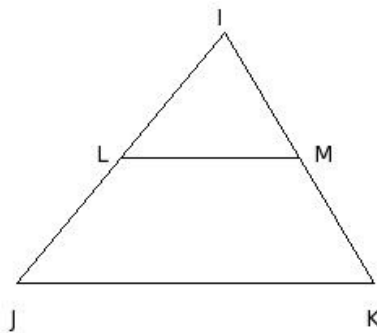
15. H is the mid-point of \overline{EF} and $\overline{HI} \parallel \overline{FG}$, then $EH =$



- (i) IG (ii) GE (iii) HF (iv) EI (v) EF

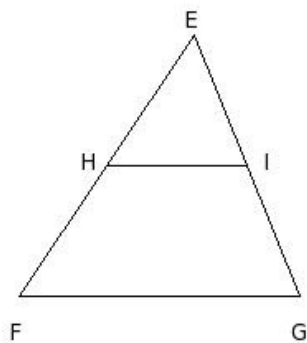
In the given figure $\triangle IJK$,

16. L is the mid-point of \overline{IJ} and $\overline{LM} \parallel \overline{JK}$, then $IL =$



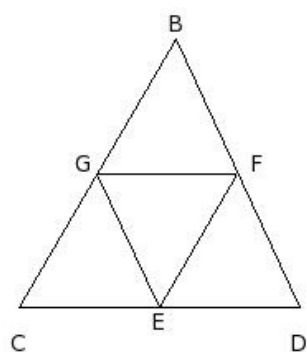
- (i) IM (ii) JK (iii) $\frac{KI}{2}$ (iv) $\frac{IJ}{2}$ (v) $\frac{JK}{2}$

17. In the given figure $\triangle EFG$,
H is the mid-point of \overline{EF} and $\overline{HI} \parallel \overline{FG}$, then $HF =$



- (i) GE (ii) IG (iii) EH (iv) EI (v) EF

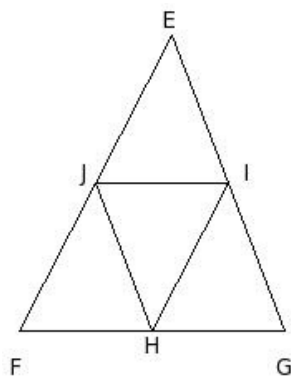
18. In the given figure, $\triangle BCD$ is a triangle.
E, F & G are mid-points of \overline{CD} , \overline{DB} & \overline{BC} respectively.
Given $EF = 9$ cm, $FG = 9$ cm & $GE = 9$ cm, find the sides of the triangle.



- (i) 18 cm, 18 cm & 21 cm (ii) 15 cm, 18 cm & 18 cm (iii) 18 cm, 18 cm & 18 cm (iv) 18 cm, 17 cm & 18 cm
(v) 19 cm, 18 cm & 18 cm

19. In the given figure, points H, I and J are the mid-points of sides \overline{FG} , \overline{GE} and \overline{EF} of $\triangle EFG$. Which of the following are true?

- a) All four small triangles have equal areas
b) Area of $\triangle EFG = 4$ times area of $\triangle HIJ$
c) Area of trapezium $FGIJ$ is $\frac{1}{4}$ the area of $\triangle EFG$
d) Area of $\triangle EFG = \frac{1}{3}$ area of $\triangle HIJ$
e) Area of trapezium $FGIJ$ is thrice the area of $\triangle EJI$

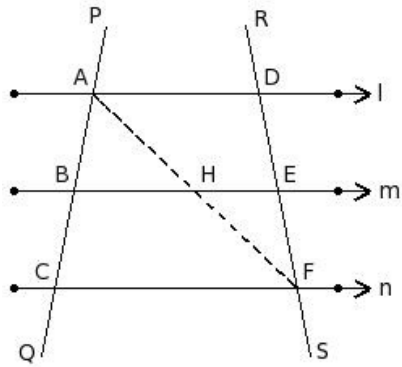


- (i) {d,b} (ii) {c,a} (iii) {c,a,b} (iv) {c,d,e} (v) {a,b,e}

In the given figure, three lines l , m and n are such that $l \parallel m \parallel n$.

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

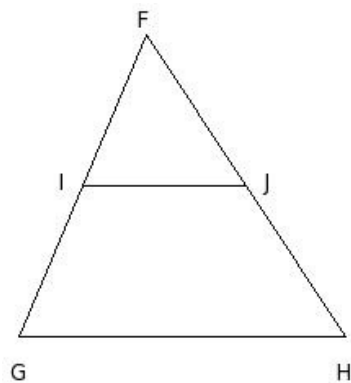
$\angle FDA =$



- (i) $\angle ACF$ (ii) $\angle ABH$ (iii) $\angle FEH$ (iv) $\angle DAF$ (v) $\angle EHF$

In the given figure $\triangle FGH$,

21. I is the mid-point of \overline{FG} and $\overline{IJ} \parallel \overline{GH}$, then $JH =$

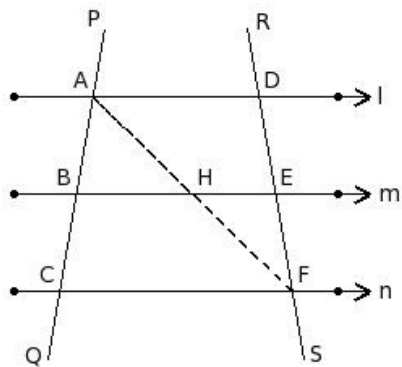


- (i) FI (ii) FJ (iii) IG (iv) FG (v) HF

In the given figure, three lines l , m and n are such that $l \parallel m \parallel n$.

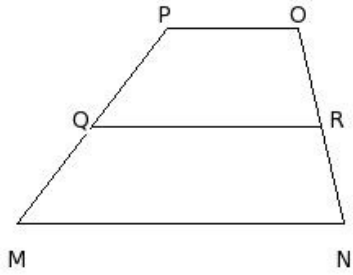
22. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

$\angle FAC =$



- (i) $\angle AFD$ (ii) $\angle HFE$ (iii) $\angle HAB$ (iv) $\angle FDA$ (v) $\angle FEH$

23. In the given figure, MNOP is a trapezium. Q and R are mid-points of MP and NO. Given $OP = 8$ cm and $QR = 14$ cm, find MN

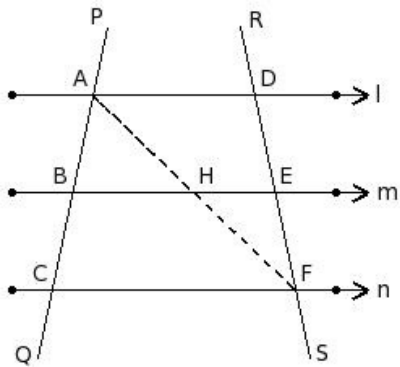


- (i) 20.0 cm (ii) 19.0 cm (iii) 21.0 cm (iv) 18.0 cm (v) 22.0 cm

In the given figure, three lines l , m and n are such that $l \parallel m \parallel n$.

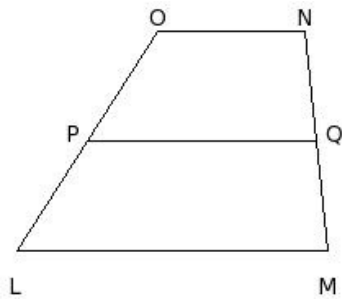
24. Two transversals PQ and RS intersect them at the points A, B, C and D, E, F respectively.

$\angle CFA =$



- (i) $\angle HFE$ (ii) $\angle BHA$ (iii) $\angle EHF$ (iv) $\angle DAF$ (v) $\angle AFD$

25. In the given figure, LMNO is a trapezium. P and Q are mid-points of LO and MN. Given $PQ = 14$ cm and $NO = 9$ cm, find LM



- (i) 17.0 cm (ii) 20.0 cm (iii) 19.0 cm (iv) 21.0 cm (v) 18.0 cm

Assignment Key

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