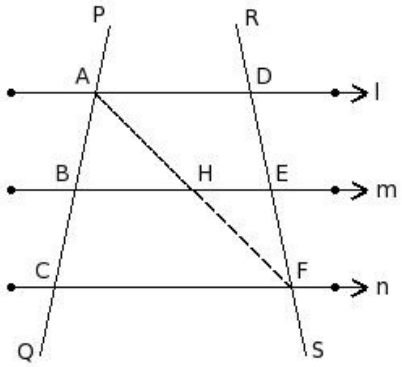
In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

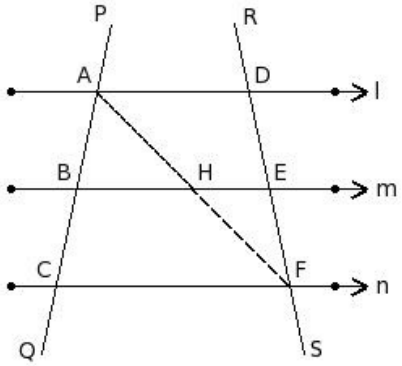
1. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.
   △ACF ~



(i) △DAE (ii) △DCF (iii) △ABH (iv) △FEH (v) △FDA

In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

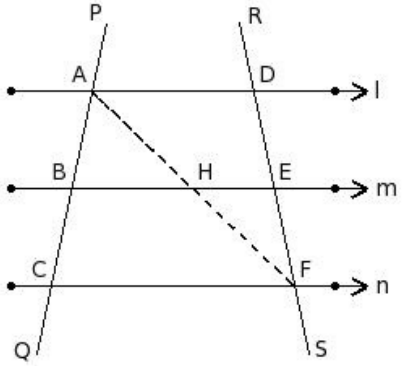
2. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.
   ∠HFE =



(i) ∠FDA (ii) ∠FAC (iii) ∠AFD (iv) ∠HAB (v) ∠FEH

In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

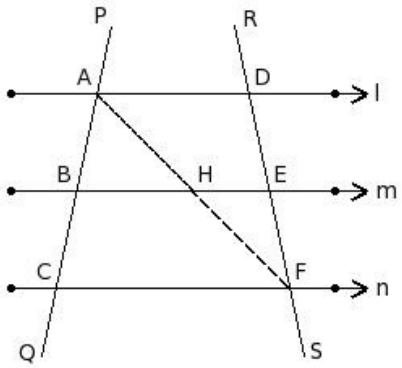
3. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.
   ∠FDA =



(i) ∠EHF (ii) ∠ABH (iii) ∠FEH (iv) ∠ACF (v) ∠DAF

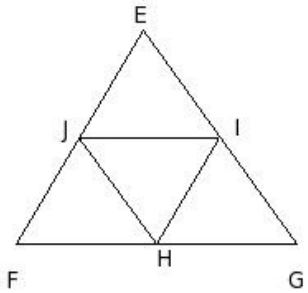
In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

4. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.
∠EHF =



(i) ∠BHA (ii) ∠HFE (iii) ∠CFA (iv) ∠AFD (v) ∠DAF

5. In the given figure, the area of the △EFG is x sq.cm. H,I,J are the mid-points of the sides FG , GE and EF respectively. The area of the △HIJ is



(i) $\frac{1}{4}$ of area of △EFG (ii) $\frac{2}{3}$ of area of △EFG (iii) $\frac{1}{3}$ of area of △EFG (iv) $\frac{1}{2}$ of area of △EFG

(v) $\frac{3}{4}$ of area of △EFG

6. In the given figure, points E , F and G are the mid-points of sides CD, DB and BC of △BCD. Which of the following are true?

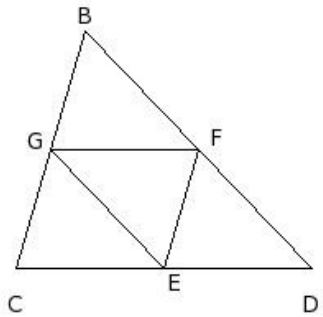
a) All four small triangles have equal areas

b) Area of $\triangle BCD = \frac{1}{3}$ area of $\triangle EFG$

c) Area of trapezium CDFG is thrice the area of △BGF

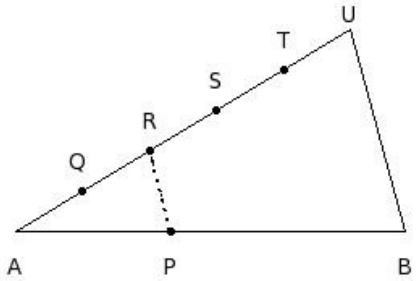
d) Area of trapezium $CDFG$ is $\frac{1}{4}$ the area of $\triangle BCD$

e) Area of △BCD = 4 times area of △EFG



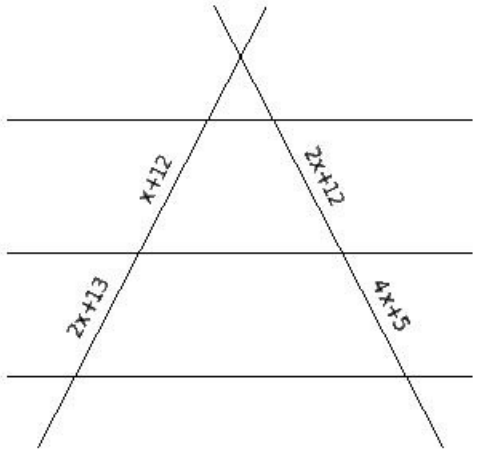
(i) {a,c,e} (ii) {b,d,e} (iii) {b,a} (iv) {d,c} (v) {b,a,c}

7. In the given figure, if A, Q, R, S, T, U are equidistant and RP ∥ UB and AB = 24 cm and AP = 10 cm. Find PB



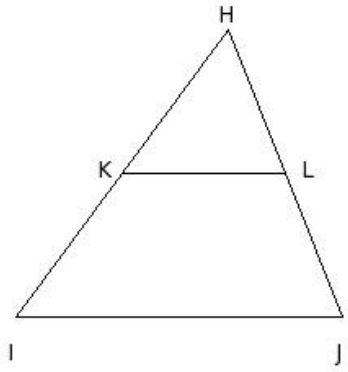
(i) 12.00 cm (ii) 15.00 cm (iii) 14.00 cm (iv) 13.00 cm (v) 16.00 cm

8. From the given figure and values, find x



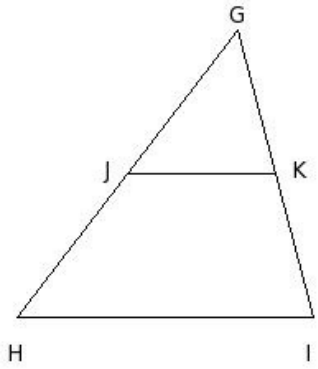
(i) (35,32) (ii) (33,33) (iii) (32,32) (iv) (34,34) (v) (32,31)

9. In the given figure $\triangle HIJ$,
K is the mid-point of $\overline{HI}$ and $\overline{KL} \parallel \overline{IJ}$, then HL =



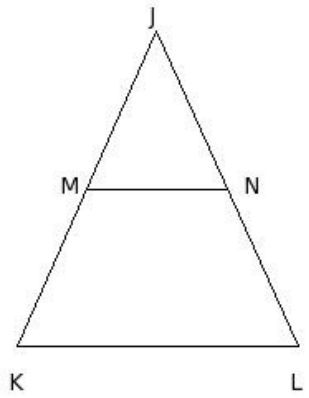
(i) $\frac{HI}{2}$ (ii) $\frac{JH}{2}$ (iii) IJ (iv) HK (v) $\frac{IJ}{2}$

10. In the given figure $\triangle GHI$,
J is the mid-point of $\overline{GH}$ and $\overline{JK} \parallel \overline{HI}$, then GJ =



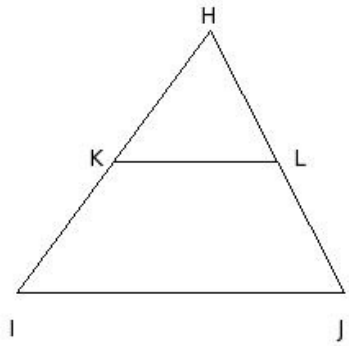
(i) $\frac{HI}{2}$ (ii) $\frac{IG}{2}$ (iii) $\frac{GH}{2}$ (iv) HI (v) GK

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



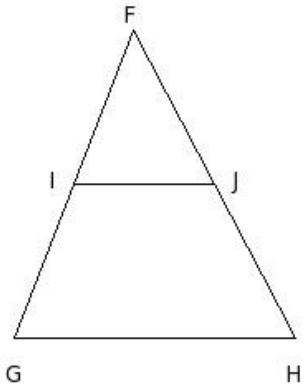
(i) NL (ii) MK (iii) JN (iv) LJ (v) JK

12. In the given figure $\triangle HIJ$,
K is the mid-point of $\overline{HI}$ and $\overline{KL} \parallel \overline{IJ}$, then KI =



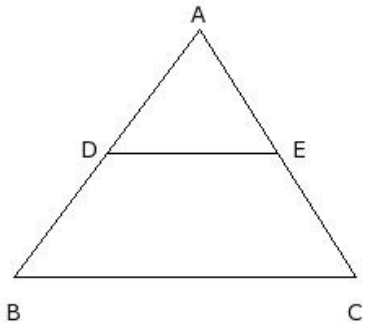
(i) LJ (ii) HK (iii) JH (iv) HL (v) HI

13. In the given figure $\triangle FGH$,
I is the mid-point of $\overline{FG}$ and $\overline{IJ} \parallel \overline{GH}$, then FJ =



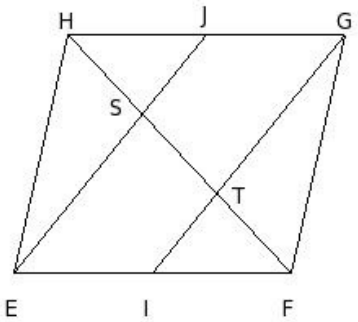
(i) JH (ii) FG (iii) FI (iv) HF (v) IG

14. In the given figure $\triangle ABC$,
D is the mid-point of $\overline{AB}$ and $\overline{DE} \parallel \overline{BC}$, then EC =



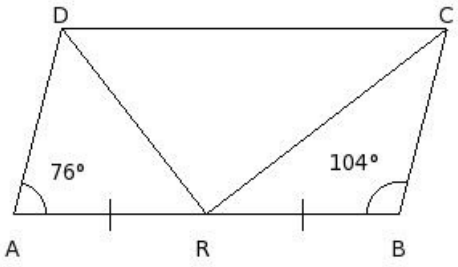
(i) AB (ii) CA (iii) DB (iv) AE (v) AD

15. In the given figure, EFGH is a parallelogram
such that I and J are mid-points of sides EF & GH.
EJ meets FH at S and GI meets FH at T. Given FH = 20 cm, find FT



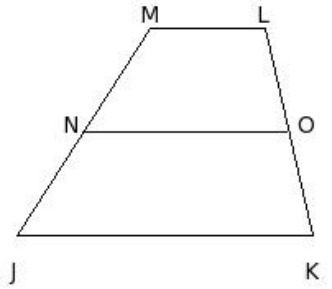
(i) 8.67 cm (ii) 6.67 cm (iii) 4.67 cm (iv) 5.67 cm (v) 7.67 cm

16. In the given figure, ABCD is a parallelogram such that R is the mid-point of AB and AB = 2DA. Find ∠DRC



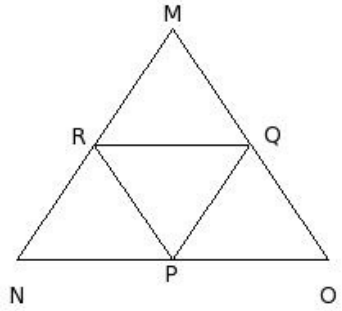
(i) 88° (ii) 92° (iii) 89° (iv) 91° (v) 90°

17. In the given figure, JKLM is a trapezium. N and O are mid-points of JM and KL.Given NO = 12.5 cm and LM = 7 cm, find JK



(i) 18.0 cm (ii) 19.0 cm (iii) 17.0 cm (iv) 16.0 cm (v) 20.0 cm

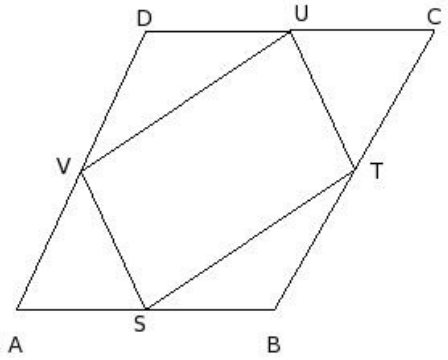
18. In the given figure, △MNO is a triangle.
P, Q & R are mid-points of NO, OM & MN respectively.
Given PQ = 8 cm, QR = 10 cm & RP = 9 cm, find the sides of the triangle.



(i) 13 cm, 20 cm & 18 cm (ii) 16 cm, 20 cm & 18 cm (iii) 17 cm, 20 cm & 18 cm (iv) 16 cm, 20 cm & 21 cm

(v) 16 cm, 19 cm & 18 cm

19. ABCD is a quadrilateral. S, T, U and V are mid-points of AB, BC, CD and DA respectively.If AC = 31 cm and BD = 19 cm, find the measure of the sides of STUV.



(i) 15.5 cm, 8 cm, 15.5 cm, 8 cm (ii) 15.5 cm, 9.5 cm, 15.5 cm, 9.5 cm (iii) 18 cm, 9.5 cm, 18 cm, 9.5 cm

(iv) 15.5 cm, 7 cm, 15.5 cm, 7 cm (v) 16 cm, 9.5 cm, 16 cm, 9.5 cm

Assignment Key

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