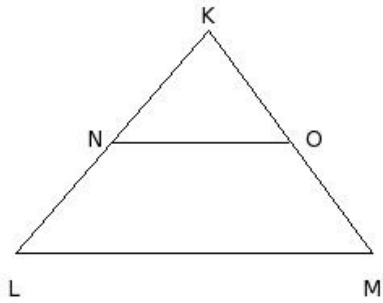
EduSahara™ Assignment

Name : The Midpoint Theorem of Triangle

Chapter : Quadrilaterals

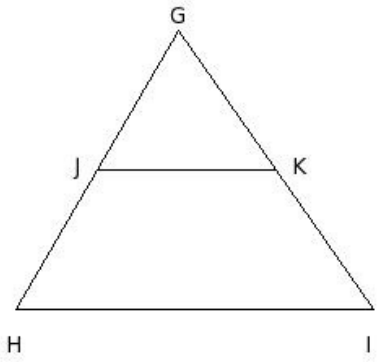
Grade : CBSE Grade IX

1. In the given figure $\triangle KLM$,
N is the mid-point of $\overline{KL}$ and $\overline{NO} \parallel \overline{LM}$, then $KO =$



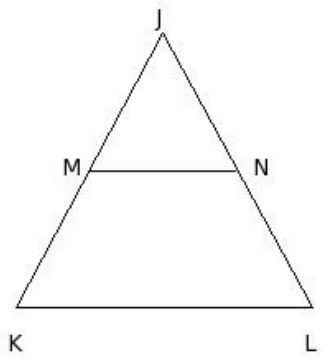
(i) LM (ii) $\frac{KL}{2}$ (iii) KN (iv) $\frac{LM}{2}$ (v) $\frac{MK}{2}$

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



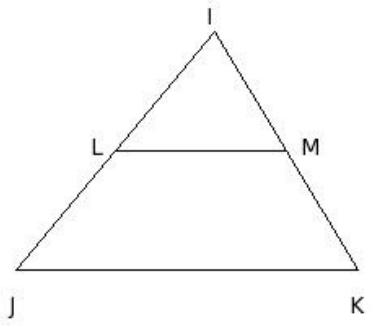
(i) $\frac{GH}{2}$ (ii) GK (iii) HI (iv) $\frac{IG}{2}$ (v) $\frac{HI}{2}$

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



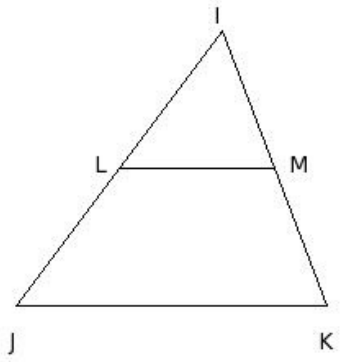
(i) LJ (ii) NL (iii) JN (iv) JK (v) MK

4. In the given figure $\triangle IJK$,
L is the mid-point of $\overline{IJ}$ and $\overline{LM} \parallel \overline{JK}$, then LJ =



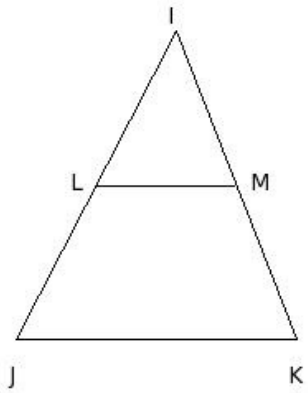
(i) IL (ii) IJ (iii) MK (iv) IM (v) KI

5. In the given figure $\triangle IJK$,
L is the mid-point of $\overline{IJ}$ and $\overline{LM} \parallel \overline{JK}$, then IM =



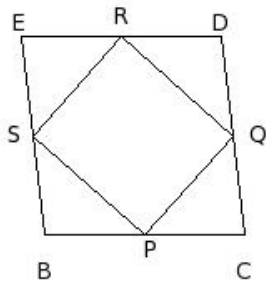
(i) KI (ii) MK (iii) IL (iv) LJ (v) IJ

6. In the given figure $\triangle IJK$,
L is the mid-point of $\overline{IJ}$ and $\overline{LM} \parallel \overline{JK}$, then MK =



(i) IL (ii) KI (iii) LJ (iv) IM (v) IJ

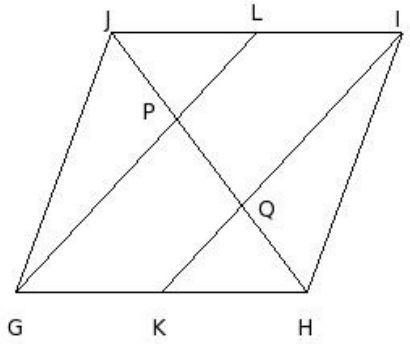
7. BCDE is a rhombus. P, Q, R and S are mid-points of sides BC, CD, DE and EB. Find $\angle QRS$



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

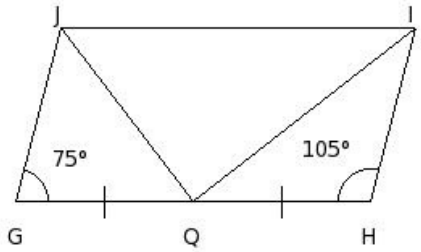
In the given figure, GHIJ is a parallelogram

8. such that K and L are mid-points of sides GH & IJ.
GL meets HJ at P and IK meets HJ at Q. Given HJ = 20 cm, find HQ



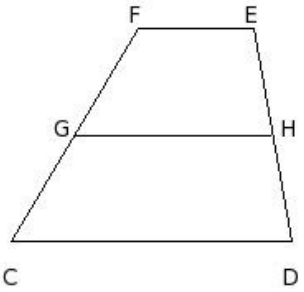
(i) 8.67 cm (ii) 6.67 cm (iii) 4.67 cm (iv) 7.67 cm (v) 5.67 cm

9. In the given figure, GHIJ is a parallelogram such that Q is the mid-point of GH and GH = 2JG. Find ∠JQI



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

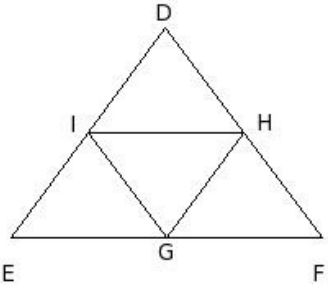
10. In the given figure, CDEF is a trapezium. G and H are mid-points of CF and DE.Given EF = 7 cm and CD = 17 cm, find GH



(i) 11.0 cm (ii) 14.0 cm (iii) 12.0 cm (iv) 10.0 cm (v) 13.0 cm

In the given figure, △DEF is a triangle.

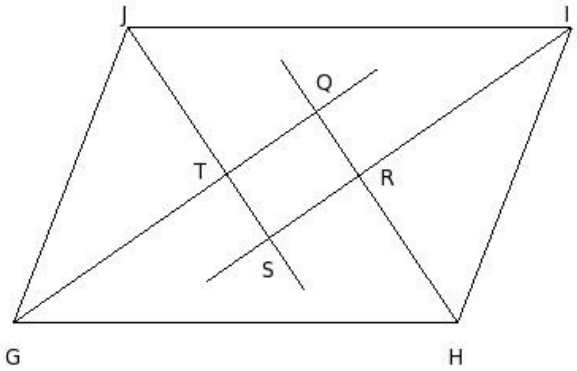
11. G, H & I are mid-points of EF, FD & DE respectively.
Given GH = 8 cm, HI = 10 cm & IG = 8 cm, find the sides of the triangle.



(i) 16 cm, 20 cm & 16 cm (ii) 16 cm, 19 cm & 16 cm (iii) 17 cm, 20 cm & 16 cm (iv) 16 cm, 20 cm & 18 cm

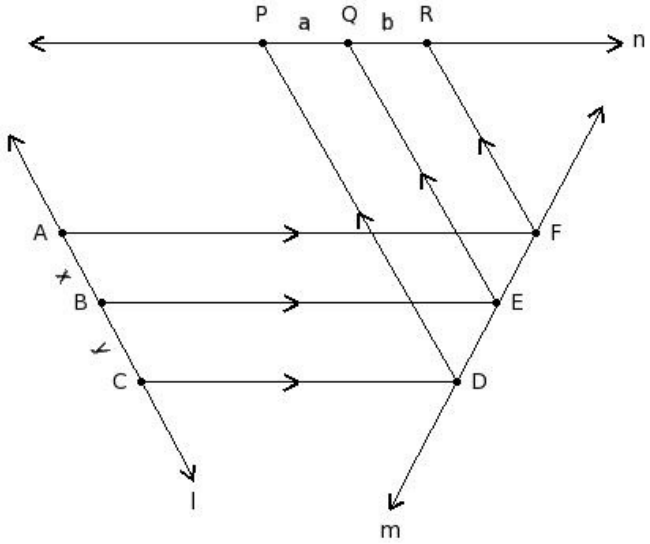
(v) 14 cm, 20 cm & 16 cm

12. In the given figure, GHIJ is a parallelogram. The bisector of the angles G, H, I & J intersect at Q, R, S & T to form a quadrilateral. Find ∠QRS



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

13. In the given figure, l, m & n are three straight lines such that AF ‖ BE ‖ CD and DP ‖ EQ ‖ FR.Given y = 12 cm, a = 10 cm and x = 10 cm, find 'b'



(i) 10.33 cm (ii) 8.33 cm (iii) 7.33 cm (iv) 6.33 cm (v) 9.33 cm

Assignment Key

1) (v)	2) (i)	3) (v)	4) (i)	5) (ii)	6) (iv)
7) (iv)	8) (ii)	9) (iv)	10) (iii)	11) (i)	12) (i)
13) (ii)					