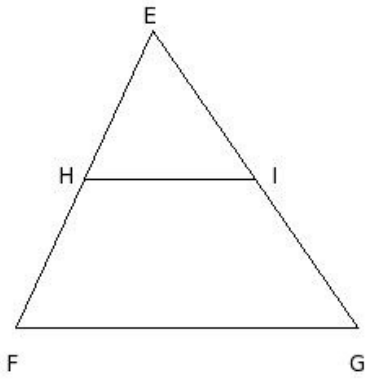
EduSahara™ Assignment

Name : The Midpoint Theorem of Triangle

Chapter : Quadrilaterals

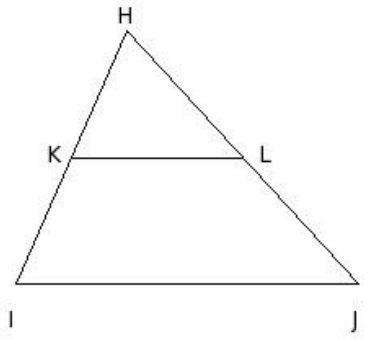
Grade : CBSE Grade IX

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



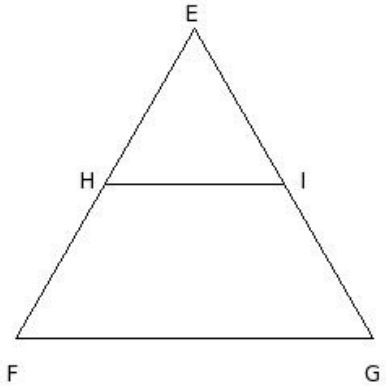
(i) $\frac{GE}{2}$ (ii) $\frac{FG}{2}$ (iii) FG (iv) $\frac{EF}{2}$ (v) EH

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



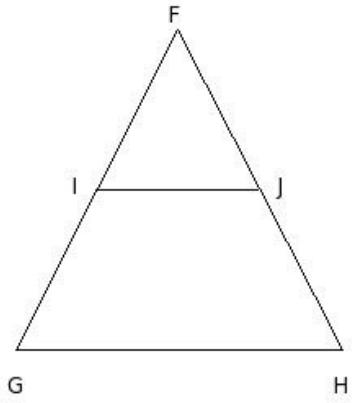
(i) $\frac{IJ}{2}$ (ii) HL (iii) $\frac{JH}{2}$ (iv) $\frac{HI}{2}$ (v) IJ

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



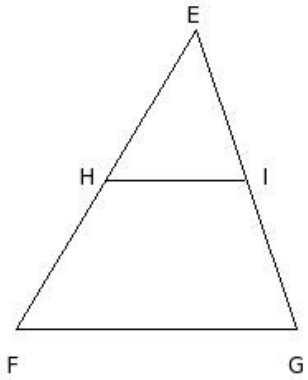
(i) EI (ii) EF (iii) GE (iv) IG (v) HF

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



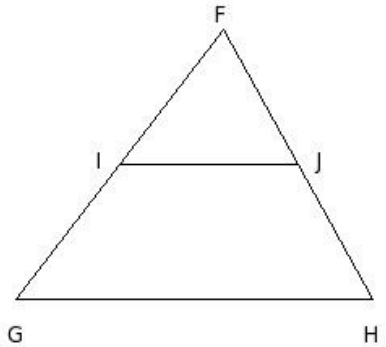
(i) JH (ii) HF (iii) FG (iv) FJ (v) FI

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



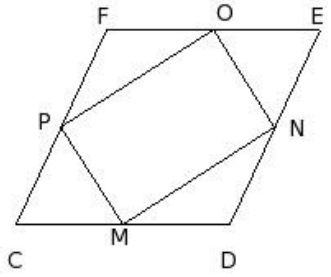
(i) EH (ii) IG (iii) EF (iv) HF (v) GE

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



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

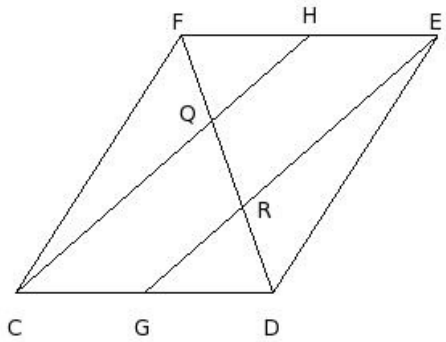
7. CDEF is a rhombus. M, N, O and P are mid-points of sides CD, DE, EF and FC. Find $\angle NOP$



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

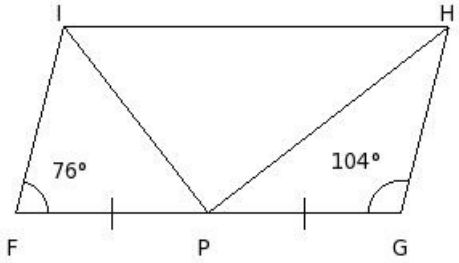
In the given figure, CDEF is a parallelogram

8. such that G and H are mid-points of sides CD & EF.
CH meets DF at Q and EG meets DF at R. Given DF = 17 cm, find QR



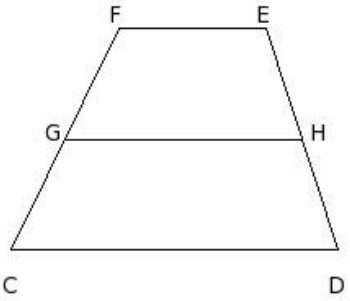
(i) 5.67 cm (ii) 3.67 cm (iii) 4.67 cm (iv) 7.67 cm (v) 6.67 cm

9. In the given figure, FGHI is a parallelogram such that P is the mid-point of FG and FG = 2IF. Find ∠IPH



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

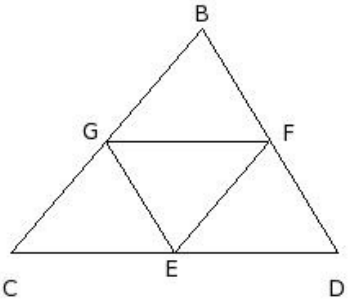
10. In the given figure, CDEF is a trapezium. G and H are mid-points of CF and DE.Given EF = 9 cm and GH = 14.5 cm, find CD



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

In the given figure, △BCD is a triangle.

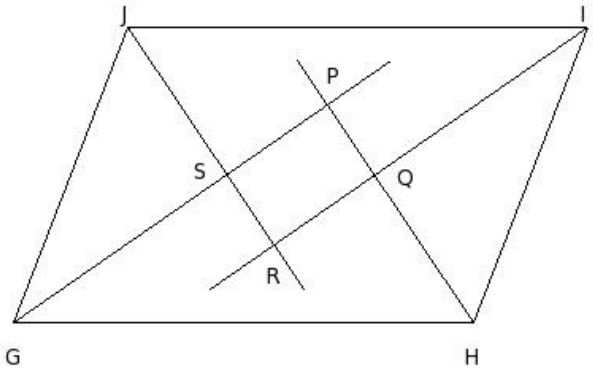
11. E, F & G are mid-points of CD, DB & BC respectively.
Given EF = 9 cm, FG = 10 cm & GE = 8 cm, find the sides of the triangle.



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

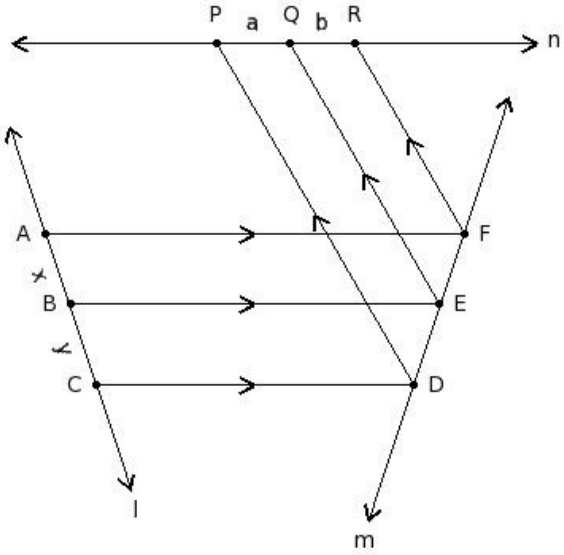
(v) 16 cm, 20 cm & 16 cm

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



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

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



(i) 8.00 cm (ii) 9.00 cm (iii) 11.00 cm (iv) 12.00 cm (v) 10.00 cm

Assignment Key

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