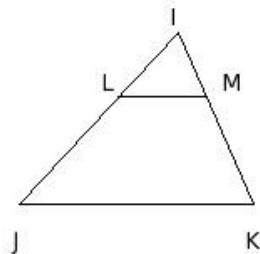


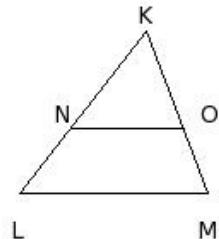


1. In the given figure,  $LM \parallel JK$ . If  $\frac{IL}{LJ} = \frac{3}{5}$  and  $IK = 11.6 \text{ cm}$ , find  $IM$



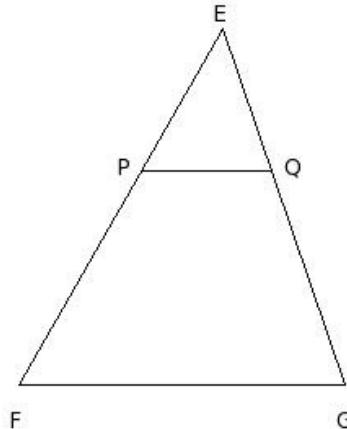
- (i) 6.35 cm (ii) 2.35 cm (iii) 3.35 cm (iv) 5.35 cm (v) 4.35 cm

2. In the given figure,  $NO \parallel LM$ .  
If  $KN = 7.74 \text{ cm}$ ,  $KL = 12.9 \text{ cm}$  and  $KM = 10.7 \text{ cm}$ , find  $KO$



- (i) 4.42 cm (ii) 5.42 cm (iii) 8.42 cm (iv) 6.42 cm (v) 7.42 cm

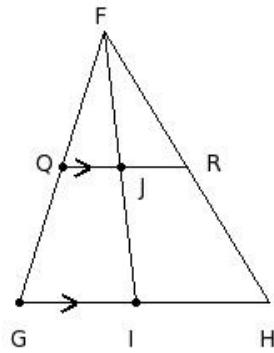
3. In the given figure,  $PQ \parallel FG$  and  $EQ = 13.8 \text{ cm}$ ,  $EG = 23 \text{ cm}$  and  $PQ = 12 \text{ cm}$ , find  $FG$



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

4. In the given figure,  $QR \parallel GH$ , and median  $FI$  bisects  $QR$ .

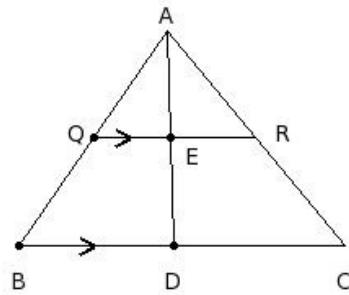
If  $FG = 17 \text{ cm}$ ,  $FI = 17 \text{ cm}$  and  $FJ = 8.5 \text{ cm}$ ,  $FQ =$



- (i) 9.50 cm (ii) 6.50 cm (iii) 7.50 cm (iv) 10.50 cm (v) 8.50 cm

5. In the given figure,  $QR \parallel BC$ , and median  $AD$  bisects  $QR$ .

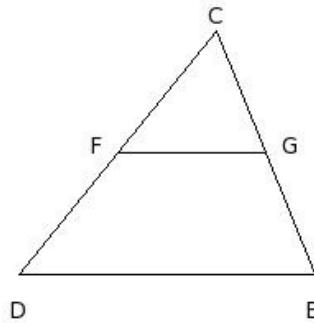
If  $AD = 13.1 \text{ cm}$ ,  $AC = 17 \text{ cm}$  and  $AE = 6.55 \text{ cm}$ ,  $RC =$



- (i) 10.50 cm (ii) 6.50 cm (iii) 9.50 cm (iv) 8.50 cm (v) 7.50 cm

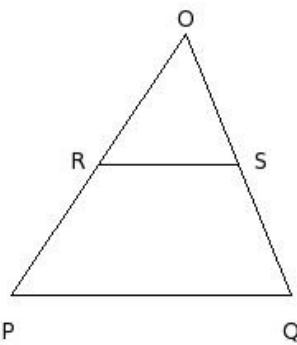
6. In the given figure,  $F$  and  $G$  are points on the sides  $CD$  and  $CE$  respectively of  $\triangle CDE$ . For which of the following cases,  $FG \parallel DE$

- a)  $CD = 19 \text{ cm}$ ,  $FD = 9.5 \text{ cm}$ ,  $CG = 10 \text{ cm}$  and  $CE = 16 \text{ cm}$
- b)  $CF = 9.5 \text{ cm}$ ,  $FD = 9.5 \text{ cm}$ ,  $CG = 8 \text{ cm}$  and  $GE = 8 \text{ cm}$
- c)  $CD = 19 \text{ cm}$ ,  $FD = 9.5 \text{ cm}$ ,  $CE = 16 \text{ cm}$  and  $CG = 8 \text{ cm}$
- d)  $CD = 19 \text{ cm}$ ,  $CF = 11.5 \text{ cm}$ ,  $CE = 16 \text{ cm}$  and  $GE = 8 \text{ cm}$



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

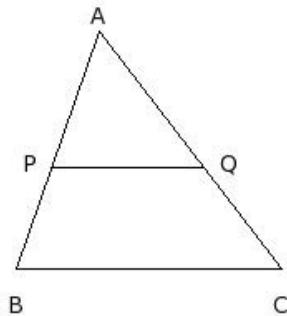
7. In the given  $\triangle OPQ$ ,  $RS \parallel PQ$ . If  $OR : RP = 9.5 \text{ cm} : 9.5 \text{ cm}$  and  $OQ = 17 \text{ cm}$ ,  $SQ =$



- (i) 6.50 cm (ii) 10.50 cm (iii) 9.50 cm (iv) 7.50 cm (v) 8.50 cm

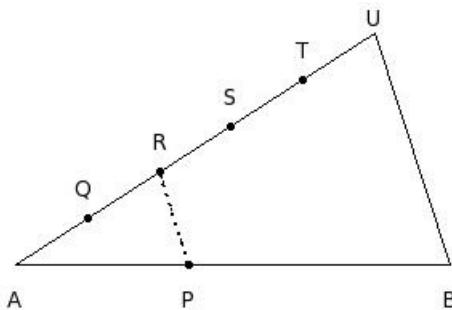
In the given figure,  $\triangle ABC$ ,  $PQ \parallel BC$  such that

8. area of  $\triangle APQ =$  area of  $\triangle PQCB$ . Find  $\frac{AP}{AB}$



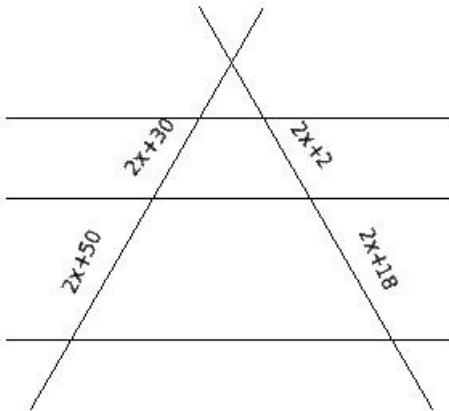
- (i)  $\frac{1}{2}\sqrt{4}$  (ii)  $\frac{1}{2}\sqrt{2}$  (iii)  $\frac{1}{2}\sqrt{-1}$  (iv)  $\frac{1}{2}\sqrt{2}$  (v) 1

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



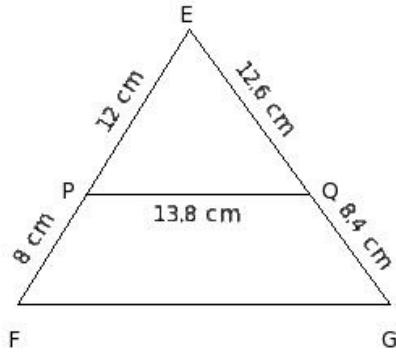
- (i) 11.80 cm (ii) 12.80 cm (iii) 10.80 cm (iv) 8.80 cm (v) 9.80 cm

10. From the given figure and values, find x



- (i) (57, 57) (ii) (58, 55) (iii) (55, 54) (iv) (55, 55) (v) (56, 56)

11. If the measures are as shown in the given figure, find FG



- (i)  $21.0 \text{ cm}$  (ii)  $22.0 \text{ cm}$  (iii)  $23.0 \text{ cm}$  (iv)  $24.0 \text{ cm}$  (v)  $25.0 \text{ cm}$

## Assignment Key

1) (v)

2) (iv)

3) (iii)

4) (v)

5) (iv)

6) (ii)

7) (v)

8) (iv)

9) (iii)

10) (iv)

11) (iii)