

Geometry test

Q1. The angle of a triangle are $3x^\circ$, $(2x-7)^\circ$ and $(4x-11)^\circ$. The value of x is :

- (a) 18 degree (b) 20 degree (c) 22 degree (d) 30 degree

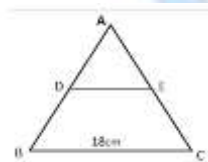
Q2. The perimeters of two similar triangles ΔABC and ΔPQR are 36cm and 24 cm . If $PQ = 10$ cm, Then $AB = ?$

- (a) $20/3$ cm (b) $10\sqrt{6}/3$ cm (c) 15 cm (d) $200/3$ cm

Q3. The radius of a circle is 13cm and AB is a chord which is at a distance of 12cm from the center. The length of the ladder is:

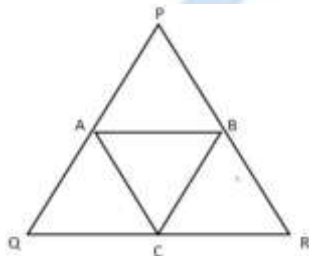
- (a) 17.5 cm (b) 35 cm (c) 25 cm (d) 10 cm

Q4. What is the length of DE if $DE \parallel BC$ and D and E are midpoints of AB and AC?



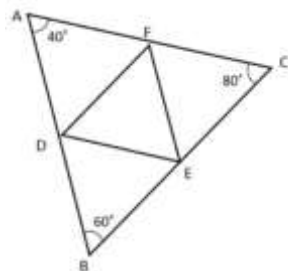
- (a) 9 cm (b) 15 cm (c) 18 cm (d) 20 cm (e) None of these

Q5. Find the perimeter of ΔABC , if perimeter of ΔPQR is 36cm and A, B and C are midpoints.



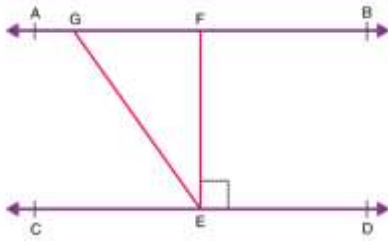
- (a) 9 cm (b) 18 cm (c) 20 cm (d) 36 cm (e) None of these

Q6. Find the ratio of the angles D : E : F of ΔDEF formed by joining the midpoints of the sides of ΔABC .



- (a) 4 : 2 : 3 (b) 4 : 3 : 2 (c) 2 : 3 : 5 (d) 5 : 3 : 2 (e) None of these

Q7. If $AB \parallel CD$, $EF \perp CD$ and $\angle GED = 135^\circ$ as per the figure given below. The value of $\angle AGE$ is:

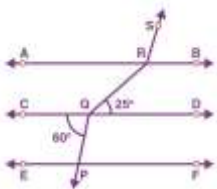


- (a) 90 degrees (b) 120 degrees (c) 135 degrees (d) 140 degrees

Q8. If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 2 : 3, then the greater of the two angles is:

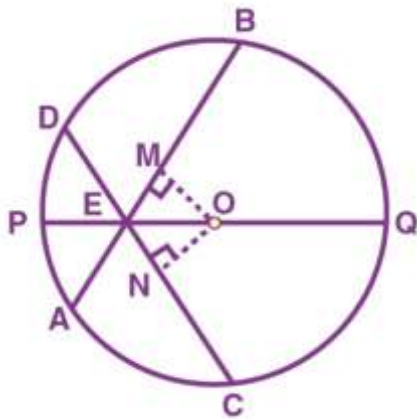
- (a) 54 Degrees (b) 108 Degrees (c) 120 Degrees (d) 136 Degrees

Q9. In the given figure, if $AB \parallel CD \parallel EF$, $PQ \parallel RS$, $\angle RQD = 25^\circ$ and $\angle CQP = 60^\circ$, then $\angle QRS$ is equal to



- (a) 85 Degrees (b) 110 Degrees (c) 135 Degrees (d) 145 Degrees (e) None of these

Q10. If AB and CD are two chords of a circle intersecting at point E , as per the given figure. Then:



- (a) $\angle BEQ > \angle CEQ$ (b) $\angle BEQ = \angle CEQ$ (c) $\angle BEQ < \angle CEQ$ (d) None of the above

Answer key

1	A	3	D	5	B	7	C	9	D
2	C	4	A	6	A	8	B	10	B