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CBSE 10th Triangles Unsolved Paper

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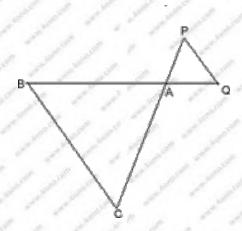
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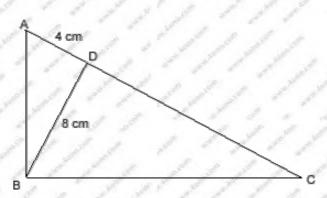
CBSE 10th Triangles **Unsolved Paper**

- Q.1. In $\triangle ABC$, D and E are points on the sides AB and AC respectively such that DE \parallel BC
 - If AD = 6 cm, DB = 9 cm and AE = 8 cm, find AC
 - if $\frac{AD}{DB} = \frac{3}{4}$ and AC = 15 cm, find AE
 - if $\frac{AD}{DB} = \frac{2}{3}$ and AC = 18 cm, find AE
 - If AD = 4, AE = 8, DB = x 4, and EC = 3x 19, find x iv.
 - If AD = 8cm, AB = 12 cm and AE = 12 cm, find CEv.
 - If AD = 4 cm, DB = 4.5 cm and AE = 8 cm, find AC. vi.
 - If AD = 2 cm, AB = 6 cm and AC = 9 cm, find AEvii.
 - if $\frac{AD}{BD} = \frac{4}{5}$ and EC = 2.5 cm, find AEviii.
 - If AD = x, DB = x 2, AE = x + 2 and EC = x 1, find the value of x. ix.
 - If AD = 8x 7, DB = 5x 3, AE = 4x 3 and EC = (3x 1), find the value of
 - If AD = 4x 3, AE = 8x 7, BD = 3x 1 and CE = 5x 3, find the volume of xi.
 - If AD = 2.5 cm, BD = 3.0 cm and AE = 3.75 cm, find the length of AC xii.
- Q.2. In a \triangle ABC, P and Q are points on sides AB and AC respectively, such that PQ || BC. If AP = 2.4 cm, AQ = 2 cm, QC = 3 cm and BC = 6 cm, find AB and PQ.
- Q.3. In a \triangle ABC, D and E are points on AB and AC respectively such that DE || BC. If AD = 2.4cm, AE = 3.2 cm, DE = 2cm and BC = 5 cm, find BD and CE.
- Q.4. $\triangle ABC$ is a triangle such that $\frac{AB}{AC} = \frac{BD}{DC}$, $\angle B = 70^{\circ}$, $\angle C = 50^{\circ}$. Find $\angle BAD$.

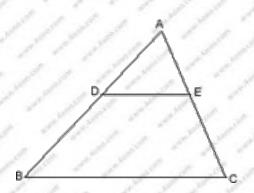
Q.5. \triangle ACB ~ \triangle APQ. If BC = 8 cm, PQ = 4 cm, BA = 6.5 cm and AP = 2.8 cm, find CA and AQ.



Q.6. $\angle ABC = 90^{\circ}$ and BD \perp AC. If BD = 8 cm and AD = 4 cm, find CD



Q. 7. DE \parallel BC such that AE = (1/4) AC. If AB = 6 cm, find AD.



- Q.8. D and E are the points on the sides AB and AC respectively of a \triangle ABC such that: AD = 8 cm, DB = 12 cm, AE = 6 cm and CE = 9 cm. Prove that BC = 5/2 DE.
- Q. 9. The corresponding altitudes of two similar triangles are 6 cm and 9 cm respectively. Find the ratio of their areas
- Q.10. ABC is a triangle in which $\angle A = 90^{\circ}$, AN \perp BC, BC = 12 cm and AC = 5cm. Find the ratio of the areas of \triangle ANC and \triangle ABC.
- Q.11. In $\triangle ABC$, D and E are the mid-points of AB and AC respectively. Find the ratio of the areas of $\triangle ADE$ and $\triangle ABC$
- Q.12. In ABC, P divides the side AB such that AP : PB = 1 : 2. Q is a point in AC such that PQ || BC. Find the ratio of the areas of \triangle APQ and trapezium BPQC.
- Q.13. The areas of two similar triangles are $100 cm^2$ and $49 cm^2$ respectively. If the altitude the bigger triangle is 5 cm, find the corresponding altitude of the other.
- Q.14. The areas of two similar triangles are $121 cm^2$ and $64 cm^2$ respectively. If the median of the first triangle is 12.1 cm, find the corresponding median of the other.
- Q.15. If $\triangle ABC \sim \triangle DEF$ such that AB = 5 cm, area $(\triangle ABC) = 20$ cm² and area $(\triangle DEF) = 45$ cm², determine DE.
- Q.16. In \triangle ABC, PQ is a line segment intersecting AB at P and AC at Q such that PQ || BC and PQ divides \triangle ABC into two parts equal in area. Find $\frac{BP}{AB}$
- Q.17. The areas of two similar triangles ABC and PQR are in the ratio 9:16. If BC = 4.5 cm, find the length of QR.
- Q.18. ABC is a triangle and PQ is a straight line meeting AB in P and AC in Q. If AP = 1 cm, PB = 3 cm, AQ = 1.5 cm, QC = 4.5 m, prove that area of \triangle APQ is one-sixteenth of the area of ABC.

- Q.19. If D is a point on the side AB of \triangle ABC such that AD : DB = 3.2 and E is a Point on BC such that DE || AC. Find the ratio of areas of \triangle ABC and \triangle BDE.
- Q.20. If the sides of a triangle are 3 cm, 4 cm, and 6 cm long, determine whether the triangle is a right-angled triangle.
- Q.21. A ladder 17 m long reaches a window of a building 15 m above the ground. Find the distance of the foot of the ladder from the building.
- Q.22. In an isosceles triangle ABC, AB = AC = 25 cm, BC = 14 cm. Calculate the altitude from A on BC.
- Q.23. A triangle has sides 5 cm, 12 cm and 13 cm. Find the length to one decimal place, of the perpendicular from the opposite vertex to the side whose length is 13 cm.
- Q.24. In an isosceles triangle ABC, if AB = AC = 13 cm and the altitude from A on BC is 5 cm, find BC.
- Q.25. In a \triangle ABC, AB = BC = CA = 2a and AD \perp BC. Prove that
 - (i) $AD = a\sqrt{3}$
 - (ii) Area (\triangle ABC) = $\sqrt{3}a^2$
- Q.26. In an acute-angled triangle, express a median in terms of its sides
- Q.27. Calculate the height of an equilateral triangle each of whose sides measures 12 cm.
- Q.28. In right-angled triangle ABC in which $\angle C = 90^{\circ}$, if D is the mid-point of BC, prove that $AB^2 = 4AD^2 3AC^2$

- Q.29. A guy wire attached to a vertical pole of height 18 m is 24 m long and has a stake attached to the other end. How far from the base of the pole should the stake be driven so that the wire will be taut?
- Q.30. Determine whether the triangle having sides (a-1) cm, $2\sqrt{a}$ cm and (a+1) cm is a rightangled triangle.

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