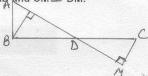
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CONGRUENT TRIANGLES

VERY SHORT ANSWER TYPE QUESTIONS

Q.1 In the given △ABC, AD is the median, BL → AD and CM → DM.

Prove that BL = CM.



Q.2 In the given figure, AB divides ∠DAC in the ratio 1:3 and AB = DB. Determine the value

50°, Find∠BOC.



10%

Q.4 In the given figure, AM \perp BC and AN is the bisector of \angle A, If \angle B = 65 and ∠C = 33°, find ∠ MAN.

50

Q.5 ABC is an isosceles triangle with AB = AC. AD bisects exterior angle PAC and CD BA.

Prove that (i) \(\text{DAC} = \(\text{BCA} \) (ii) ABCD is a parallelogram.



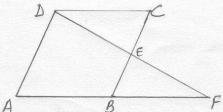
SHORT ANSWER TYPE QUESTIONS

Q.6 In the given figure, $\angle B = \angle E$, BD = CE and $\angle 1 = \angle 2$. Show that \triangle ABC = \triangle AED.



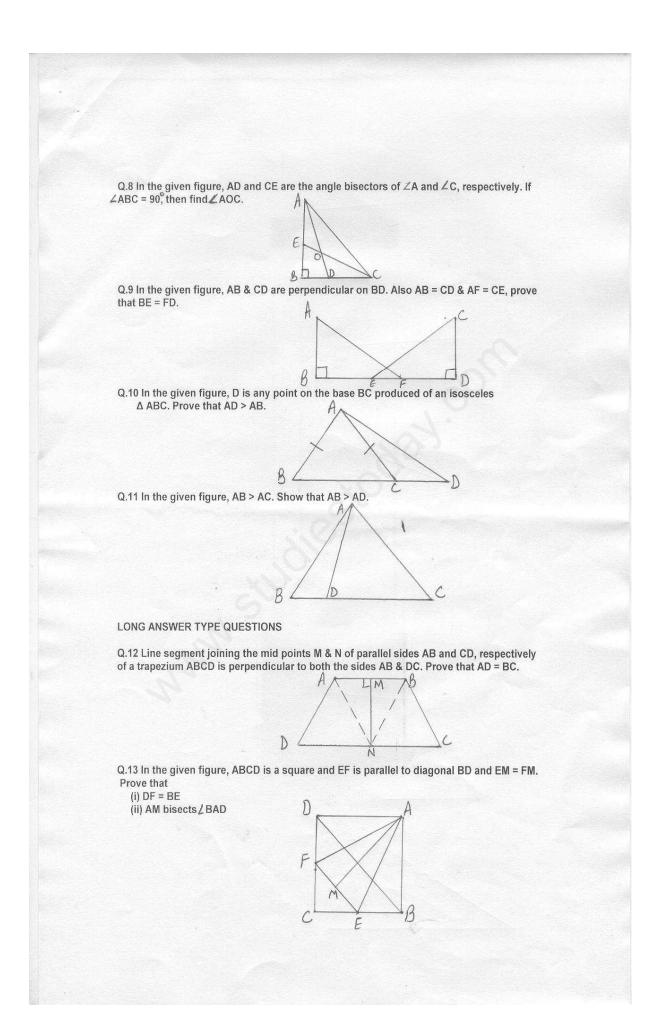
Q.7 ABCD is a parallelogram and E is the midpoint of side BC. DE and AB on producing

meet at F. Prove that AF = 2AB.



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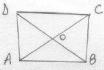
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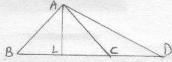
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TRIANGLES CONTINUED...

Q.14 In the given figure, show that



Q.15 In the given figure, the side BC of ABC is produced to D. The bisector of ∠A meets BC in L. Prove that ∠ABC + ∠ACD = &∠ALC



Q.16 In a right angled triangle, one acute angle is double the other. Prove that the hypotenuse is double the smallest side.

MULTIPLE CHOICE QUESTIONS

Q.17 Two sides of a triangle are of lengths 5 cm and 1.5 cm, the length of the third side of the triangle cannot be

- (a) 3.6 cm
- (b) 4.1 cm

Q.18 In the given figure, the measure of ABC is

- (c) 3.8 cm
- (d) 3.4 cm

- (a) 60°
- (b) 30°
- (c) 45°
- (d) 90°



Q.19 In triangles ABC and DEF, AB = FD & ∠ A = ∠D. The two triangles will be congruent by SAS axiom if

- (a) BC = EF
- (b) AC = DE
- (c) AC = EF (d) BC = DE

Q.20 In the given figure, the congruency rule used in proving △ ACB ≅ △ ADB is

- (a) ASA
- (b) SAS
- (c) AAS
- (d) RHS

Q.21 D is a point on the BC of a △ABC such that AD bisects ∠ BAC. Then

- (a) BD = CD (b) BA > BD
- (c) BD > BA (d) CD > CA