CLASS 8

SUBJECT :Algebra andGeometryWork sheet17

Marks:15TRIANGLES

Date:13.3.21

Answer all thefollowing questions(1×15=15)

Q1. In two triangles DEF and PQR, if DE = QR, EF = PR and FD = PQ, then

a) ΔDEF ≅ ΔPQR

b) ΔFED ≅ ΔPRQ

c) ΔEDF ≅ ΔRPQ

d) ΔPQR ≅ ΔEFD

Q2. In ΔABC, BC = AB and ∠B = 80°. Then ∠A is equal to:

a) 80°

b) 40°

c) 50°

d) 100°

Q3. Two sides of a triangle are of length 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

c) 3.8 cm

d) 6.9 cm

Q4. In ΔPQR, if ∠R >∠Q, then

a) QR > PR

b) PQ > PR

c) PQ < PR

d) QR < PR

Q5. D is a point on the side BC of a ΔABC such that AD bisects ∠BAC. Then

a) BD : DC = AB : AC

b) CD > CA

c) BD > BA

d) BA > BD

Q6. It is given that Δ ABC ≅ Δ FDE and AB = 5 cm, ∠B = 40° and ∠A = 80°. Then which of the following is true?

a) DF = 5 cm, ∠F = 60°

b) DF = 5 cm, ∠E = 60°

c) DE = 5 cm, ∠E = 60°

d) DE = 5 cm, ∠D = 40°

Q7. All the medians of a triangle are equal in case of a:

a) Scalene triangle

b) Right angled triangle

c) Equilateral triangle

d) Isosceles triangle
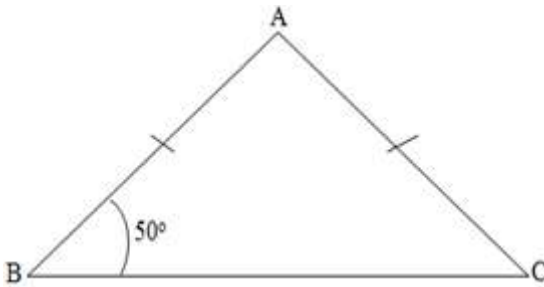
Q8. In the given figure, PS is the median then ∠QPS?
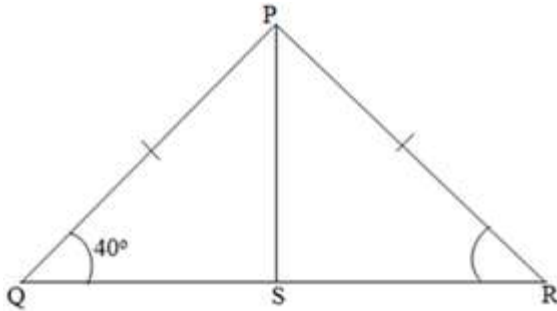
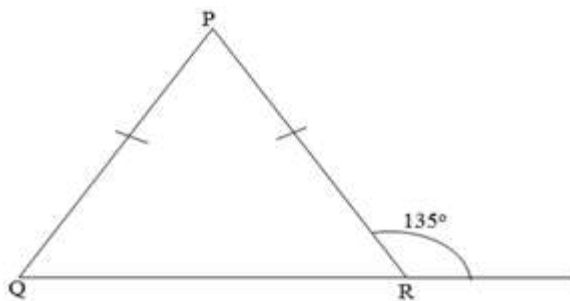a) 40°

b) 50°

c) 80°

d) 90°

Q9. In triangle PQR if ∠Q = 90°, then:

a) PQ is the longest side

b) QR is the longest side

c) PR is the longest side

d) None of these

Q10. In the given figure, AB = AC and ∠B = 50° then; ∠A is:

a) 50°

b) 80°

c) 100°

d) 130°

Q11. In the given figure, if the exterior angle is 135° then ∠P is:

a) 45°

b) 60°

c) 80°
d) 90°

Q12. If in ΔPQR, PQ = PR then:

a) ∠P = ∠R

b) ∠P = ∠Q

c) ∠Q = ∠R

d) None of these

Q13. In a triangle ABC, ∠B = 35° and ∠C = 60°, then

a) ∠A = 80°

b) ∠A = 85°

c) ∠A = 120°

d) ∠A = 145°

Q14. In triangles ABC and PQR, AB = AC, ∠C = ∠P and ∠B = ∠Q. The two triangles are:

a) Isosceles but not congruent

b) Isosceles and congruent

c) Congruent but not isosceles

d) Neither congruent nor isosceles

Q15. In triangles ABC and DEF, AB = FD and ∠A = ∠D. The two triangles will be congruent by SAS axiom if:

a) BC = EF

b) AC = DE

c) AC = EF

d) BC = DE

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