Discover the Exception, The Triangle and Its Properties

Class VII, Mathematics

Q1. Which of the following options shows △ABC ≅ △DEF by ASA property?

A. ∠B = 65°, ∠C = 66°, AC = 5 cm and ∠D = 65°, ∠F = 66°, DE = 5 cm
B. ∠A = 65°, ∠B = 66°, AB = 5 cm and ∠E = 66°, ∠D = 65°, DE = 5 cm
C. ∠A = 70°, ∠C = 66°, AB = 5 cm and ∠D = 65°, ∠E = 66°, DF = 5 cm
D. ∠B = 65°, ∠B = 66°, AB = 5 cm and ∠D = 65°, ∠E = 66°, DE = 5 cm

Q2. Which of the following options shows △ABC ≅ △DEF by SSS property?

A. AB = 10 cm, BC = 9 cm, AC = 6 cm and DE = 10 cm, EF = 9 cm, DF = 6 cm
B. BC = 9 cm, AB = 10 cm, AC = 6 cm and DE = 10 cm, DF = 5 cm, EF = 9 cm
C. AB = 10 cm, AC = 9 cm, BC = 6 cm and DE = 10 cm, EF = 9 cm, DF = 6 cm
D. AB = 10 cm, BC = 9 cm, AC = 6 cm and DF = 10 cm, EF = 9 cm, DE = 6 cm

Q3. If △OAP ≅ △OBQ, then which of the following is NOT true?

A. ∠OAB=∠OBP
B. ∠AOP=∠BOQ
C. AO=BO
D. ∠APO=∠BQO

Q4. If △OAP ≅ △OBQ, then which of the following is true?

A. OQ=AP
B. OA=OQ
C. ∠QOB=∠PAO
D. ∠APO=∠BQO

Q5. If △OAP ≅ △OBQ, then which of the following is true?

A. ∠AQP=∠BOQ
B. OP=OQ
C. OA=OQ
D. OQ=AO

Q6. Which of the following options shows △ABC ≅ △DEF by SAS property?

A. AB = 6 cm, BC = 6 cm, ∠B = 68° and DE = 6 cm, EF = 6 cm, ∠E = 78°
B. AB = 6 cm, BC = 6 cm, ∠C = 68° and DE = 6 cm, EF = 6 cm, ∠E = 68°
C. BC = 6 cm, AB = 6 cm, ∠A = 68° and EF = 6 cm, DE = 6 cm, ∠D = 68°
D. AB = 6 cm, BC = 6 cm, ∠B = 68° and DE = 6 cm, EF = 6 cm, ∠F = 68°

Q7. If △OAP ≅ △OBQ, then which of the following is true?

A. ∠OAB=∠OBP
B. ∠QOB=∠PAO
C. AP=AO
D. OP=OQ

Q8. Which of the following options shows △ABC ≅ △DEF by

ASA property?

A. ∠A = 57°, ∠B = 76°, AB = 9 cm and ∠E = 76°, ∠D = 57°, DE = 9 cm
B. ∠A = 57°, ∠B = 76°, AB = 9 cm and ∠D = 57°, ∠F = 76°, DE = 10 cm
C. ∠A = 62°, ∠C = 76°, AB = 9 cm and ∠D = 57°, ∠E = 76°, DF = 9 cm
D. ∠A = 57°, ∠C = 76°, AB = 9 cm and ∠D = 57°, ∠E = 76°, DE = 9 cm

Q9. Which of the following options shows △ABC ≅ △DEF by ASA property?

A. ∠B = 56°, ∠A = 79°, AB = 6 cm and ∠E = 56°, ∠D = 79°, DE = 6 cm
B. ∠A = 79°, ∠B = 56°, AB = 6 cm and ∠D = 79°, ∠F = 56°, DE = 7 cm
C. ∠A = 79°, ∠C = 56°, AB = 6 cm and ∠D = 79°, ∠E = 56°, DE = 6 cm
D. ∠A = 74°, ∠B = 56°, AB = 6 cm and ∠D = 79°, ∠E = 56°, DE = 6 cm

Q10. Which of the following options shows △ABC ≅ △DEF by SAS property?

A. AB = 8 cm, BC = 5 cm, ∠B = 45° and DE = 8 cm, EF = 6 cm, ∠E = 45°
B. BC = 5 cm, AB = 8 cm, ∠B = 45° and DE = 8 cm, EF = 5 cm, ∠E = 45°
C. AB = 8 cm, BC = 4 cm, ∠B = 45° and DE = 8 cm, EF = 5 cm, ∠E = 50°
D. AB = 8 cm, BC = 5 cm, ∠B = 45° and DE = 8 cm, EF = 5 cm, ∠F = 45°

Answer Sheet

Q1. B	Q2. A	Q3. A
Q4. D	Q5. B	Q6. C
Q7. D	Q8. A	Q9. A
Q10. B		