Swotters Academy

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Test / Exam Name: Maths - Lines And Angles | **Standard: 7th** | **Subject: Mathematics**

Student Name: ..... **Section:** ..... **Roll No.:** .....

Questions: 19 | Time: 01:00 hh:mm | Marks: 30

Instructions

1. Honesty is the best policy.
2. Start a new section from a new page

SECTION-A

Q1. Two angles are adjacent and form an angle of 100°. The larger is 20° less than five times the smaller. The larger angle is: **1 Mark**

90°
70°
80°
75°

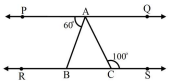
A 90° **B** 70° **C** 80° **D** 75°

Q2. The measure of an angle which is four times its supplementary angle is: **1 Mark**

36°
144°
180°
150°

A 36° **B** 144° **C** 180° **D** 150°

Q3. In Fig. PQ || RS and $\angle PAB = 60^\circ$ and $\angle ACS = 100^\circ$. Then, $\angle BAC =$ **1 Mark**



A 40 **B** 60 **C** 80 **D** 50

Q4. Find the angle, which is 60° more than its complement. **1 Mark**

55
75
85
60

A 55 **B** 75 **C** 85 **D** 60

Q5. Two complemntary angles are in the ratio 2 : 3. The measure of the larger angle is: **1 Mark**

A 60º **B** 54º **C** 66º **D** 48º

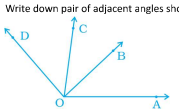
Q6. Mark the correct alternative of the following. **1 Mark**

An angle is double of its supplement. The measure of the angle is?

60°
120°
40°
80°

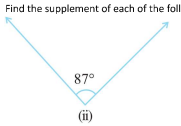
A 60° **B** 120° **C** 40° **D** 80°

Q7. Write down pair of adjacent angles shown in the following figures: **1 Mark**

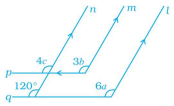


Q8. If two angles are complementary, then the sum of their measures is _____. **1 Mark**

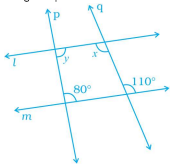
Q9. Find the supplement of each of the following angles: **1 Mark**



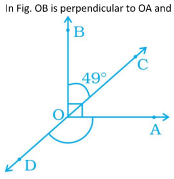
(ii)



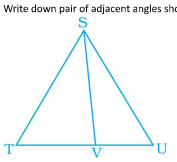
Q18. In Fig. two parallel lines l and m are cut by two transversals p and q. Determine the values of x and y. **3 Marks**



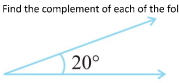
Q19. In Fig. OB is perpendicular to OA and $BOC = 49^\circ$. Find $\angle AOD$. **3 Marks**



Q10. Write down pair of adjacent angles shown in the following figures: **1 Mark**



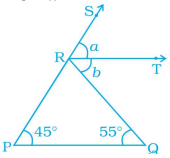
Q11. Find the complement of each of the following angles: **1 Mark**



(i)

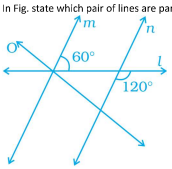
Q12. If two angles are supplementary, then the sum of their measures is _____ . **1 Mark**

Q13. In Fig. PQ || RT. Find the value of a + b. **2 Marks**

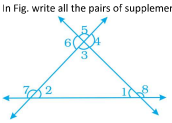


SECTION-B

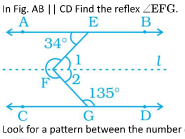
Q14. In Fig. state which pair of lines are parallel. Give reason. **2 Marks**



Q15. In Fig. write all the pairs of supplementary angles. **2 Marks**



Q16. In Fig. AB || CD Find the reflex $\angle EFG$. **3 Marks**



Look for a pattern between the number of sides and the number of triangles.

Q17. In Fig. l, m and n are parallel lines, and the lines p and q are also parallel. Find the values of a, b and c. **3 Marks**