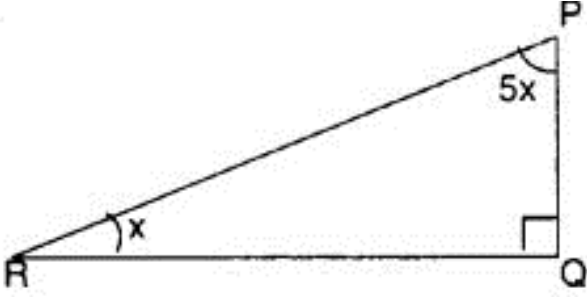
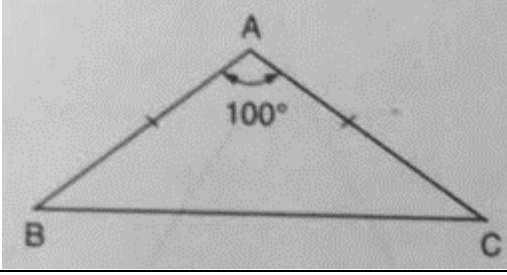


INDIAN SCHOOL AL WADI AL KABIR
 Class VII, Mathematics
WORKSHEET (MCQ) – TRIANGLE AND ITS PROPERTIES

Multiple Choice questions

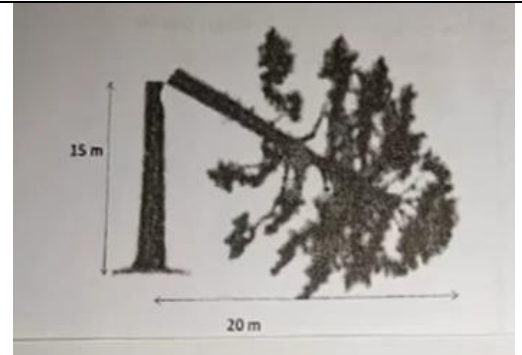
| | | | | | | | | |
|------|--|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|--------------------------------------|
| Q.1. | In a triangle two angles are 68° and 73° , The measure of third angle is | | | | | | | |
| | A | 41° | B | 37° | C | 39° | D | 43° |
| Q.2. | The exterior angle of a triangle is 116° and one of its interior opposite angles is 63° . The measure of the other opposite angle is | | | | | | | |
| | A | 55° | B | 53° | C | 48° | D | 52° |
| Q.3. | Which of the following can be the measures of the sides of a triangle? | | | | | | | |
| | A | 15cm, 17cm, 33cm | B | 11cm, 13cm, 24cm | C | 18cm, 21cm, 30cm | D | 12cm, 15cm, 31cm |
| Q.4. | In an isosceles right-angled triangle, the measure of three angles are | | | | | | | |
| | A | $90^{\circ}, 45^{\circ}, 45^{\circ}$ | B | $90^{\circ}, 60^{\circ}, 60^{\circ}$ | C | $60^{\circ}, 45^{\circ}, 45^{\circ}$ | D | $90^{\circ}, 60^{\circ}, 30^{\circ}$ |
| Q.5. | The three angles of a triangle are x , $(x + 20^{\circ})$, and $(x + 40^{\circ})$. The value of x is | | | | | | | |
| | A | 35° | B | 42° | C | 50° | D | 40° |
| Q.6. | The value of x and y in given triangle | | | | | | | |
| | | | | | | | | |
| | A | $100^{\circ}, 40^{\circ}$ | B | $80^{\circ}, 50^{\circ}$ | C | $80^{\circ}, 100^{\circ}$ | D | $100^{\circ}, 50^{\circ}$ |

| | | | | | | | | |
|------------------------------|---|-------------------|---|------------------|--|--------------------|---|------------------|
| Q.7. | In a right-angled triangle, base is 12cm and hypotenuse is 15cm, the length of altitude is | | | | | | | |
| | A | 7cm | B | 8cm | C | 11cm | D | 9cm |
| Q8. | The value of x in figure | | | | | | | |
| |  | | | | | | | |
| | A | 15° | B | 75° | C | 25° | D | 35° |
| Q9 | Which of the following cannot be the sides of a right triangle? | | | | | | | |
| | A | 6 cm, 8 cm, 10 cm | B | 2 cm, 2 cm, 4 cm | C | 5 cm, 12 cm; 13 cm | D | 3 cm; 4 cm; 5 cm |
| Q10 | The exterior angle of a triangle is 72° and the interior opposite angles are in the ratio 4:5, the angles are | | | | | | | |
| | A | 32°,40° | B | 30°,42° | C | 28°,44° | D | 50°,22° |
| SOURCE BASED QUESTION | | | | |  | | | |
| Q11 | In ΔABC , if $AB=AC$ and $\angle A = 100^\circ$ then $\angle C =$ ----- | | | | | | | |
| Q12 | A triangle has -----medians | | | | | | | |
| Q13 | Two sides of a triangle are 9 cm and 17cm, then the length of third side lies between ----and - ----- | | | | | | | |
| Q14 | In -----triangle the altitudes meet in the exterior of the triangle. | | | | | | | |
| Q15 | The length and breadth of a rectangle are 12cm and 5cm respectively, then the length of its diagonal is ----- | | | | | | | |

Q.16

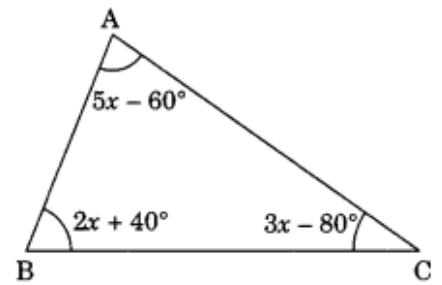
CASE STUDY:

Suresh having a garden near Delhi. In the garden there are many trees and flower plants. One day due to heavy rain and storm, one of the trees is broken as shown in figure. The height of the unbroken part is 15m and the broken part of the tree has fallen at 20 m away from the base of the tree. Based on the information answer the following



- I. What is the length of the broken part?
- II. What is the original height of the tree?
- III. Find the value of x in the given figure

- IV. Check whether 5cm,8cm,17cm can be the sides of a right-angled triangle



ANSWERS

| | | | | | | | |
|-----|----------|-----|------------------------|-----|------------|-----|--|
| 1. | C | 2. | B | 3. | C | 4. | A |
| 5. | D | 6. | A | 7. | D | 8. | A |
| 9. | B | 10. | A | 11. | 40° | 12. | 3 |
| 13. | 8cm,26cm | 14. | Obtuse angled triangle | 15. | 13 cm | 16. | I. 25 m II. 40 m III. $x = 8$ V. No |