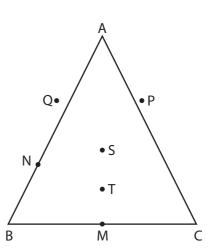
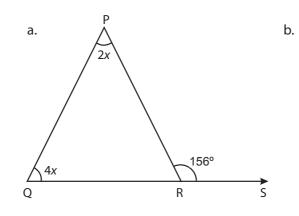
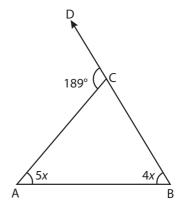
Worksheet

- 1. Fill in the blanks.
 - a. A closed figure formed by joining three non-collinear points is called a
 - b. Points which lie outside the triangle are said to be in the _____ region.
 - c. A triangle with three unequal sides is called a _____
 - d. The sum of the angles of a triangle is _____
- 2. Look at the figure given and answer accordingly:
 - a. Name the points lying in the exterior of Δ ABC.
 - b. Name the points lying in the interior of Δ ABC.
 - c. Name the points lying on the boundary of Δ ABC.



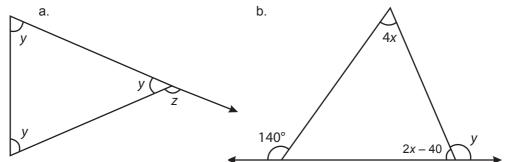
- 3. The angles of a triangle are in the ratio2:3:4. Find the measure of each angle of the triangle.
- 4. Can 4 cm, 6 cm and 5 cm represent the sides of a triangle?
- 5. Calculate the value of *x* in each of the given figures.



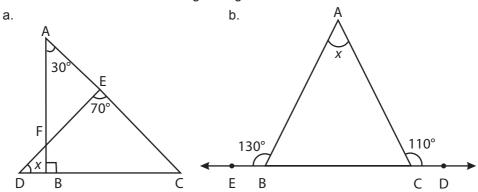


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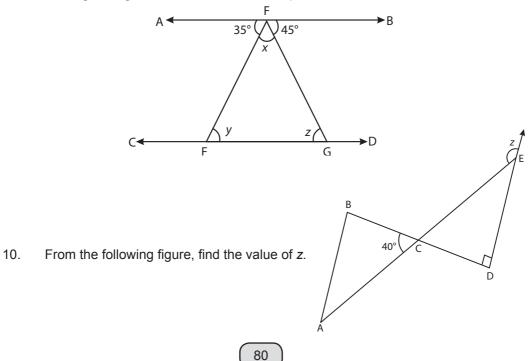
6. Find the value of the unknown letters.



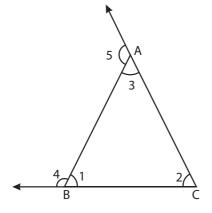
- 7. Of the three angles of a triangle, one is three times the smallest angle and the other is five times the smallest angle. Find the angles.
- 8. Find the value of *x* in each of the given figures.



9. In the given figure, find the measure of *x*, *y* and *z*.



- 11. In the angles of a triangle, one is nine times the smallest angle and the third angle is 90°. Find the unknown angles.
- 12. From the following figure, name the interior and exterior angles.



Answers to Worksheet

- 1. a. triangle b. exterior
- 2. a. P, Q b. S, T
- 3. 40°, 60°, 80° 4. yes
- 5. a. 26 b. 21
- 6. a. $y = 60^{\circ}$, $z = 120^{\circ}$ b. $x = 30^{\circ}$, $y = 160^{\circ}$
- 7. 20°, 60°, 100°
- 8. a. $x = 50^{\circ}$ b. $x = 60^{\circ}$
- 9. $x = 100^\circ$, $y = 35^\circ$, $z = 45^\circ$
- 10. z = 130°
- 11. 9°, 81°
- 12. Interior angles: $\angle 1$, $\angle 2$, $\angle 3$ Exterior angles: $\angle 4$, $\angle 5$

c. scalene triangle

c. M, N

d. 180°