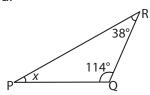
Worksheet

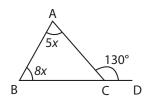
1.	Cho	ose the correct answer.
	a.	A scalene triangle has
		i. all sides equal ii. all sides unequal
		iii. two sides equal iv. all angles equal
	b.	If one angle of a triangle is greater than 90°, it is called an
		i. obtuse-angled triangle ii. acute-angled triangle
		iii. right-angled triangle iv. equilateral triangle
	C.	Sum of the angles of a triangle adds upto
		i. 90° ii. 180° iii. 270° iv. 360°
	d.	If two angles of a triangle are 35° and 25°, then the third angle measures
		i. 60° ii. 110° iii. 30° iv. 120°
	e.	If the angles of a triangle are x^{o} , $2x^{o}$ and $3x^{o}$, then x is equal to
		i. 90° ii. 50° iii. 30° iv. 60°
	f.	The angles of a triangle are in the ratio $2:3:5$, then the largest angle measures
		i. 90° ii. 36° iii. 54° iv. 45°
	g.	If the three angles of a triangle are equal, then the triangle is an triangle.
		i. isosceles ii. right-angled
		iii. equilateral iv. obtuse-angled
2.	State	e true or false.
	a.	An equilateral triangle has one of its angle obtuse.
	b.	If the base angles of an isosceles triangle equal to 66° each, then the vertical angle is 48° .
	C.	The angles of a triangle are $\frac{5x}{2}$, $4x$ and $\frac{7x}{2}$, then the value of x is 18° .
	d.	The hypotenuse is the longest side of a right triangle.
	e.	If the sides of a triangle measures 12 cm, 5 cm and 13 cm, then it is a scalene triangle.
	f.	The third angle of a triangle whose two angles measures 110° and 30° is 40° .
3.	In tri ∠BA	angle ABC, AB = AC. AD $^\perp$ BC meets BC at D. If \angle ABC = 72°, find \angle ACB and $_{\rm A}$ D.

4. Find the unknown angles in each of the following.

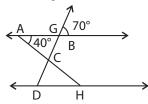
a.



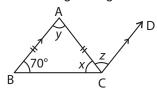
b



5. AG and DH are two parallel straight lines. By calculation, show that triangles ABC and CDH are two isosceles triangles.



6. Find the value of x, y and z in the given figure.



- 7. Find the angles of an isosceles triangle, if the equal angle measures 15° less than the third angle.
- 8. If the acute angles of a right triangle are in the ratio 4 : 5, then find the greatest angle.

Answers to Worksheet

- 1. a. ii
- b. i
- c. ii
- d. iv
- e. iii

- f. i
- g. iii
- 2. a. False b. True
- c. True
- d. True

- e. True
- f. True
- 3. $\angle ACB = 72^{\circ}$, $\angle BAD = 18^{\circ}$
- 4. a. 28°
- b. $\angle ABC = 80^{\circ}$, $\angle BAC = 50^{\circ}$
- 6. $x = 70^{\circ}, y = 40^{\circ}, z = 40^{\circ}$
- 7. 70°, 55° and 55°
- 8. 50°