TRIANGLE WORKSHEET

1. In an isosceles triangle, one of the equal angles is 55^0. The angle other than 90^0 is_____.

2. Consider a triangle XYZ such that, XY = 12 inch YZ = 8 inch. The range in which the side XZ may lie is _____.

3. Altitude of a triangle divides the side into two equal parts.
   a) True
   b) False

4. 9 inch, 8 inch, 18 inch are the can be the three sides of a triangle.
   a) True
   b) False

5. If 3y, 7y and 2x are the three angles of a triangle. Find the value of "x".
   a) 13
   b) 14
   c) 15
   d) 16

6. The sides of a Right angled triangle are 12z, 13z and 5z. Find the value of "z".
   a) 1
   b) 0
   c) 2
   d) 0.5

7. Match the following by their Pythagorean triplet:
   a- 24, 25   p-   3
   b- 37, 35   q-   8
   c- 4, 5   r-   7
   d- 17, 15   s-   12

8. Two poles of height 13 ft and 20 ft are standing on each side of a road. If the distance between their tops id 25ft. find the width of the road.

9. David walks 3 miles towards west and then 4 miles towards south. How far David is from his initial position.

10. If one of the sides of an equilateral triangle is "a". Find the length of one of its altitude.

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1)	(70)
2)	(4 to 20)
3)	b)
4)	b)
5)	c)
6)	a)

7)	a-r b-s c-p d-q
8)	(24ft)
9)	(5 miles)
10)	$\dfrac{\sqrt{3}}{2}a$

FUN FACT

1. In an equilateral triangle, altitude divides the base in two equal parts.

2. An isosceles triangle is a triangle is a triangle in whose two sides and two angles are equal.

3. If there can be only one obtuse angle in a triangle.