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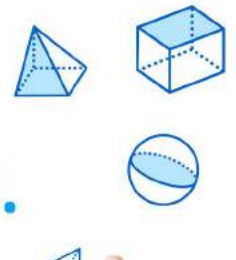

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TRIANGLE WORKSHEET

1) One of the angles of a Right angled triangle is 26^0. The angle other than 90^0 is_____.
2) Consider a triangle OPQ such that, OP = 9 inch PQ = 3 inch. The range in which the side OQ may lie is _____.
3) Altitude of a triangle makes an angle of 90^0 with the side.
   a) True
   b) False
4) 11 inch, 22 inch, 34 inch are the can be the three sides of a triangle.
   a) True
   b) False
5) If $x - 50^0$, $x + 40^0$ and $3x - 10^0$ are the three angles of a triangle. Find the value of "x".
   a) 40
   b) 45
   c) 50
   d) 55
6) The sides of a Right angled triangle are 7z, 25z and 24z. Find the value of "z".
   a) 1
   b) 0
   c) 2
   d) 0.5
7) Match the following properties of a triangle with their respective conditions:

a-	Two angles are equal	p-	May be or may not be
b-	Difference of two sides is less than the third one	q-	180^0
c-	Sum of two angles is equal to the third one	r-	Possible

d- Sum of all three angles s- Not possible

8) The shadow of the top of a tree is 12ft away from its base. If the height of the tree is 5 ft. Find the distance between its top and the shadow of its top.

9) A pole brakes done due to a storm such that some part of it is still perpendicular to the ground but its top is touching the ground. The distance between its top and its base is 12 inch. If the length of the broken part is 13 inch. Find the total height of the pole before the storm.

10) It is required to paint a wall which is in the shape of a triangle. The length of three sides of the wall is 13 inch, 14 inch and 15 inch respectively. Find the area of the wall to be painted.

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ANSWERS

1)	(64)
2)	(6 to 12)
3)	a)
4)	b)
5)	a)
6)	a)

7)	a-r b-s c-p d-q
8)	(13ft)
9)	18 inch
10)	(959.6 sq inch)

FUN FACT

1. Area of a triangle is directly proportional to its height

2. The sum of all the angle of a triangle is 180 degree.

3. Sum of any two sides of a triangle should be greater than the third one.