

Choose the correct answer:

1. In a right angled triangle, the square of the length of hypotenuse is equal to the \_\_\_\_ of the squares of the lengths of the other two sides.

- (a) Sum (b) Difference  
(c) Zero (d) None of these

2. If the square of one side of a triangle is equal to the sum of the squares of the other two sides then the triangle is a \_\_\_\_ triangle.

- (a) Right angled (b) Acute angled  
(c) Obtuse angled (d) None of these

3. Let  $c$  be the longest of the sides  $a$ ,  $b$  and  $c$  of a triangle. If  $a^2 + b^2 = c^2$ , then the triangle is \_\_\_\_:

- (a) Right (b) Acute  
(c) Obtuse (d) None of these

4. Let  $c$  be the longest of the sides  $a$ ,  $b$  and  $c$  of a triangle. If  $a^2 + b^2 > c^2$  then triangle is:

- (a) Acute (b) Right  
(c) Obtuse (d) None of these

5. Let  $c$  be the longest of the sides  $a$ ,  $b$  and  $c$  of a triangle. If  $a^2 + b^2 < c^2$ , then the triangle is:

- (a) Acute (b) Right  
(c) Obtuse (d) None of these

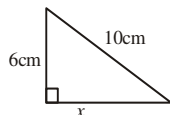
6. If 3cm and 4cm are two sides of a right angled triangle, then hypotenuse is;

- (a) 5cm (b) 3cm  
(c) 4cm (d) 2cm

7. In right triangle \_\_\_\_ is a side opposite to right angle.

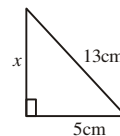
- (a) Base (b) Perpendicular  
(c) Hypotenuse (d) None

8. In the fig.



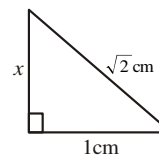
- (a)  $x = 6\text{cm}$  (b)  $x = 8\text{cm}$   
(c)  $x = 10\text{cm}$  (d)  $x = 16\text{cm}$

9. In the fig.



- (a)  $x = 5\text{cm}$  (b)  $x = 8\text{cm}$   
(c)  $x = 12\text{cm}$  (d)  $x = 18\text{cm}$

10. In the fig.



- (a)  $x = 2\text{cm}$  (b)  $x = 1\text{cm}$   
(c)  $x = \sqrt{2}\text{cm}$  (d)  $x = 3\text{cm}$

11. In right angled triangle greater angle is \_\_\_\_.

- (a)  $30^\circ$  (b)  $60^\circ$   
(c)  $90^\circ$  (d)  $120^\circ$

12. In right angled triangle one angle is  $90^\circ$  and other two angles are \_\_\_\_

- (a) obtuse (b) acute  
(c) right (d) supplementary

13. If hypotenuse of an isosceles right angled triangle is  $\sqrt{2}$  then each of other side is:

- (a) 1cm (b) 2cm  
(c) 3cm (d) 4cm

14. In right angled triangle which side is the longest side?

- (a) perpendicular (b) base  
(c) hypotenuse (d) none of these

15. In right angled triangle if  $m\angle B = 90^\circ$  then which of the following is true?

- (a)  $a^2 + b^2 = c^2$  (b)  $a^2 + c^2 = b^2$   
(c)  $b^2 + c^2 = a^2$  (d)  $a^2 - c^2 = b^2$

16. In a Isosceles right angled triangle two acute angles are equal to:

- (a)  $30^\circ$  (b)  $45^\circ$   
(c)  $60^\circ$  (d)  $90^\circ$

1.	a	2.	a	3.	a	4.	a
5.	c	6.	a	7.	c	8.	b
9.	c	10.	b	11.	c	12.	b
13.	a	14.	c	15.	b	16.	b

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*by*  
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