

**SSLC Examination March 2023**  
**Mathematics - English Version.**  
**Detailed Solutions with Questions.**  
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**Question. 1**

7, 13, 19, ... is an arithmetic sequence.

- (a) What is its common difference ?  
(b) Find its 11<sup>th</sup> term.

**Solution.**

Sequence = 7, 13, 19, .....

a) Common difference =  $x_2 - x_1$   
 $= 13 - 7 = 6..$

b) 11<sup>th</sup> term =  $f + 10 d$   
 $= 7 + 10 \times 6 = 67.$

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## Question. 2.

Weights of 11 players of a football team are given in kilograms :

55, 65, 56, 70, 62, 54, 64, 58, 68, 65, 60

Find the median of the weights of players.

## Solution.

Arrange the weight in ascending order  
54, 55, 56, 58, 60, 62, 64, 65, 65, 66, 70.

The given data has odd numbers

$$\therefore \text{Median} = \left( \frac{n+1}{2} \right)^{\text{th}} \text{ term .}$$

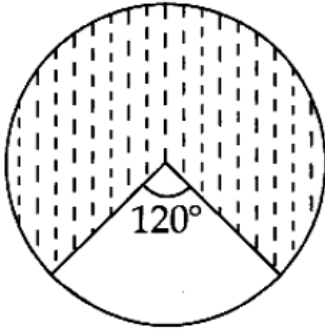
$$= \left( \frac{11+1}{2} \right)^{\text{th}} \text{ term} = \left( \frac{12}{2} \right)^{\text{th}} \text{ term}$$

$$6^{\text{th}} \text{ term} = 62.$$

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## Question. 3.

A dot is put inside the circle without looking it.



- (a) What is the probability that the dot to be within the unshaded part ?
- (b) What is the probability that the dot to be within the shaded part ?

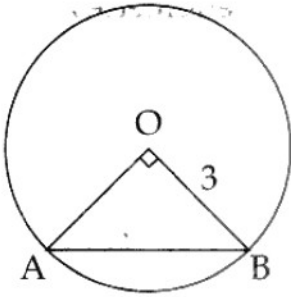
## Solution.

$$\text{a) } \frac{120}{360} = \frac{1}{3} .$$

$$\text{b) } 1 - \frac{1}{3} = \frac{2}{3} .$$

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## Question. 4.



AB is a chord of a circle of radius 3 centimetres. Chord AB makes a rightangle at the centre. What is the length of AB ?

## Solution.

Given  $OB = 3$ .(radius)

In rt. $\Delta AOB$  ,angles are  $45,45,90$ .ie.,  $1 : 1 : \sqrt{2}$  .

ie.,  $3 : 3 : 3\sqrt{2}$ .

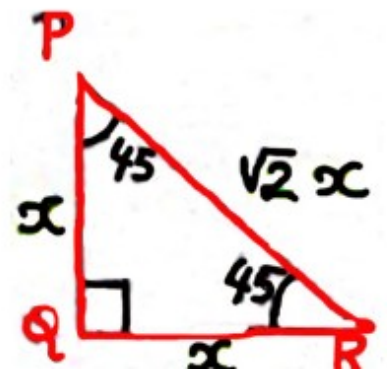
Hence  $AB = 3\sqrt{2}$ .

Having the angles  $45^\circ, 45^\circ,$

Angles :  $45^\circ, 45^\circ, 90^\circ$ .

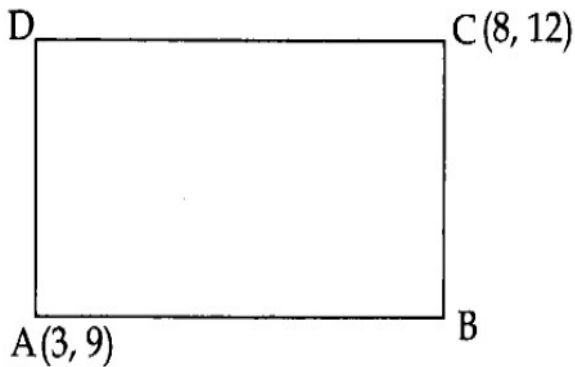
Note. Sides :  $1 : 1 : \sqrt{2}$  .

$x \quad x \quad \sqrt{2}x$  .



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## Question. 5.



A(3, 9), C(8, 12) are the coordinates of two opposite vertices of a rectangle whose sides are parallel to the coordinate axes.

- Find the coordinates of other two vertices of the rectangle.
- Find the lengths of the sides of the rectangle.

## Solution.

Given two vertices

A(3, 9) ; C(8, 12).

a) Other two vertices of the rectangle be B(8, 9) ; D(3, 12).

b) Length of AB =  $| 8 - 3 | = 5$ .

Length of BC =  $| 12 - 9 | = 3$ .

Length of DC = 5

[ opposite of the rectangle]

Length of  $AD = 3$

[ opposite of the rectangle] .

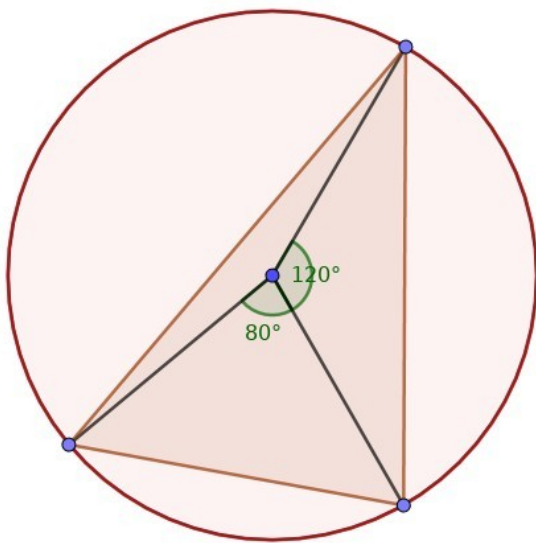
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### Question. 6.

Draw a circle of radius 4 centimetres.

Draw a triangle whose vertices are on this circle and two of the angles  $40^\circ$  and  $60^\circ$ .

### Solution.



### Construction

Draw a circle with radius 4cm. Draw any radius and make an angle  $80^\circ$  and make an angle

$80^\circ (2 \times 40 = 80^\circ)$  and then make an angle  $120^\circ$  .  $(2 \times 60 = 120^\circ)$  .and join all vertices.

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## Question. 7.

Find the lengths of the sides of the rectangle whose perimeter is 80 centimetres and area 351 square centimetres.

### Solution.

Given perimeter = 80cm.

Area = 351cm<sup>2</sup> .

ie.,  $2(l+b) = 80$

$l+b = 40$

Let length be  $x$  .

$b = 40 - x$

Given Area = 351

ie.,  $x(40-x) = 351$

$x^2 - 40x = -351$

$x^2 - 40x + 20^2 = -351 + 20^2$  . [ Using square completion method]

$$(x-20)^2=49$$

$$x-20=7$$

$$x=27$$

Hence the length = 27cm ,

Breadth = 13 cm.

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### Question. 8.

(4, 5) and (8, 11) are coordinates of two points on a line.

- (a) Find the slope of the line.
- (b) Find the equation of the line.

### Solution.

Given two points are

(4, 5) and (8, 11) .

$$\text{a) Slope} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{11 - 5}{8 - 4}$$



$$= \frac{6}{4} = \frac{3}{2} .$$

b) Equation of the line

$$= y - y_1 = m(x - x_1)$$

$$= y - 5 = \frac{3}{2} (x - 4)$$

$$2y - 10 = 3x - 12.$$

$$3x - 2y - 12 + 10 = 0.$$

$$3x - 2y - 2 = 0.$$

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### Question. 9.

6<sup>th</sup> term of an arithmetic sequence is 46. Its common difference is 8.

- (a) What is its 16<sup>th</sup> term ?
- (b) Find its 21<sup>st</sup> term.

## Solution.

Given 6th term = 46 ;  $d = 8$ .

$$\text{ie. } a + 5d = 46$$

$$a = 46 - 5d$$

$$\begin{aligned} a &= 46 - 5 \times 8 \\ &= 46 - 40 = 6 . \end{aligned}$$

$$\begin{aligned} \text{a) } 16^{\text{th}} \text{ term} &= a + 15d \\ &= 6 + 15 \times 8 \\ &= 6 + 120 = 126. \end{aligned}$$

$$\begin{aligned} \text{OR , } x_{16} &= x_6 + 10d \\ &= 46 + 10 \times 8 \\ &= 46 + 80 = 126. \end{aligned}$$

b) 21st

$$\begin{aligned} \text{term} &= a + 20d \\ &= 6 + 20 \times 8 \end{aligned}$$

$$= 6 + 160 = 166.$$

$$\text{OR, } x_{21} = x_{16} + 5d$$

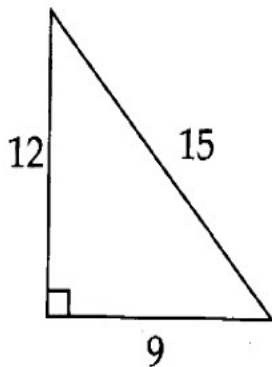
$$= 126 + 5 \times 8$$

$$= 126 + 40 = 166.$$

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### Question. 10.

The sides of a right triangle are 9 centimetres, 12 centimetres and 15 centimetres.



- (a) Find the area of the triangle.
- (b) Calculate the in radius of the triangle.

### Solution.

Given sides are 9cm, 12cm and 15cm.

$$\begin{aligned} \text{a) Area} &= \frac{1}{2} \times bh = \frac{1}{2} \times 9 \times 12 \\ &= 54\text{cm}^2 . \end{aligned}$$

$$\begin{aligned} \text{b) Radius} &= \frac{A}{S} = \frac{54}{\frac{9+12+15}{2}} \\ &= \frac{94}{18} = 3\text{cm}. \end{aligned}$$

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## Question. 11.

$$P(x) = x^2 - 4x + 4$$

- What is  $P(1)$ ?
- Write a first degree factor of  $P(x) - P(1)$
- Write the polynomial  $P(x) - P(1)$  as the product of two first degree polynomials.

## Solution.

$$\text{Given, } P(x) = x^2 - 4x + 4 .$$

$$\begin{aligned} \text{a) } P(1) &= 1^2 - 4 \times 1 + 4 . \\ &= 1 - 4 + 4 = 1 . \end{aligned}$$

$$\begin{aligned} \text{b) } P(x) - P(1) & . \\ x^2 - 4x + 4 - 1 \\ &= x^2 - 4x + 3 . \end{aligned}$$

$$\begin{aligned} \text{c) } x^2 - 4x + 3 . \\ &= (x - 3) (x - 1) . \end{aligned}$$

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## Question. 12.

A cone is made by rolling up a semicircle of radius 20 centimetres.

- (a) What is the slant height of the cone ?
- (b) Find the radius of the cone.
- (c) Calculate the curved surface area of the cone.

## Solution.

Given radius of the semi circle  
= 20cm.

a) We know that Slant height of the cone = Radius of the sector = 20 cm .

b) Radius of the cone =

$$l \times \frac{x}{360} = 20 \times \frac{180}{360}$$
$$= 10\text{cm}.$$

c)  $CSA = \pi r l = \pi \times 10 \times 20$   
 $= 200\pi \text{ cm}^2$  .

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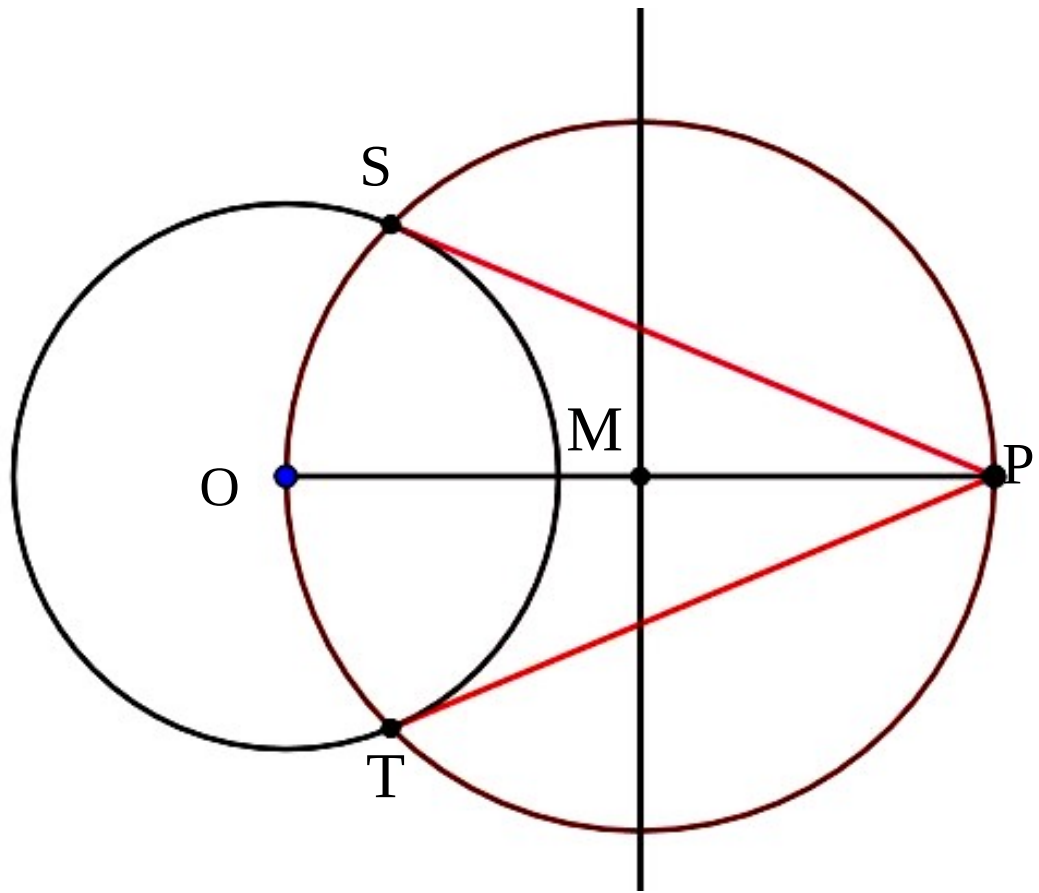
### Question. 13.

Draw a circle of radius 2.5 centimetres. Mark a point 6.5 centimetres away from the centre.

Draw the tangents to the circle from this point.

Measure and write the lengths of the tangents.

## Solution.



## Construction

Draw a circle with given radius 2.5cm  $O$  as the center. Draw  $OP$  as 6.5cm. away from the center. Draw a perpendicular to  $OP$  and cut at  $M$ . Draw a circle  $OM$  as radius and cut at  $S$  and

T respectively. Join PS and PT as the tangents.

The length of thr tangent

$$PS = PT = 6\text{cm.}$$

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### Question. 14.

Sum of first 7 terms of an arithmetic sequence is 140.

Sum of first 11 terms of the same arithmetic sequence is 440.

- (a) What is the 4<sup>th</sup> term of this arithmetic sequence ?
- (b) Find its 6<sup>th</sup> term.
- (c) What is the common difference ?
- (d) Find the first term of this sequence.

### Solution.

Sum of the first 7 term = 140.

Sum of the first 11 term  
= 440.



$$\text{a) } 4^{\text{th}} \text{ term } (x_4) = \frac{S_7}{7} = \frac{140}{7} = 20.$$

$$\text{b) } 6^{\text{th}} \text{ term } (x_6) = \frac{S_{11}}{11} = \frac{440}{11} = 40.$$

c) Common difference (d)

$$= \frac{x_6 - x_4}{6 - 4} = \frac{40 - 20}{2} = \frac{20}{2} = 10.$$

d) First term of the sequence

$$\begin{aligned} (x_1) &= x_4 - 3d \\ &= 20 - 3 \times 10 \\ &= 20 - 30 = -10. \end{aligned}$$

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## Question. 15.

A box contains 4 slips numbered 1, 2, 3, 4 and another contains 5 slips numbered 1, 2, 3, 4, 5. One slip is taken from each box without looking it.

- (a) In how many different ways we can choose the slips ?
- (b) What is the probability of both numbers being odd ?
- (c) What is the probability of both numbers being the same ?

### Solution.

Box - 1.  $\rightarrow$  1, 2, 3, 4 .

Box - 2.  $\rightarrow$  1, 2, 3, 4, 5 .

a) Total ways =  $m \times n$   
 $= 4 \times 5 = 20.$

b) Both numbers being odd  
 $= n(F) / n(N)$

$n(f) = 2 \times 3 = 6$  ,  $n(N) = 20$

∴ Probability both numbers being

$$\text{odd} = n(F) / n(N) = \frac{6}{20} = \frac{3}{10} .$$

c) Probability both numbers being same =  $n(F) / n(N)$

$$n(f) = 4., n(N) = 20.$$

∴ Probability both numbers being

$$\text{same} = n(F) / n(N) = \frac{4}{20} = \frac{1}{5} .$$

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## Question. 16.

In a right triangle, one of the perpendicular sides is 2 centimetres more than that of the other.

Area of the triangle is 24 square centimetres.

Find the lengths of the perpendicular sides of the right triangle.

## Solution.

Let one side be x

$$\text{Area} = 24 \text{ cm}^2 .$$

By question

$$\text{ie., } \frac{1}{2} \times bh = 24$$

$$\frac{1}{2} \times x(x+2) = 24$$

$$x^2 + 2x = 48 .$$

[ Using square completion method]

$$x^2 + 2x + 1 = 48 + 1$$

$$(x + 1)^2 = 49 .$$

$$x + 1 = 7 ; x = 7 - 1 = 6 .$$

$\therefore$  Sides are 6 cm. and 8 cm.

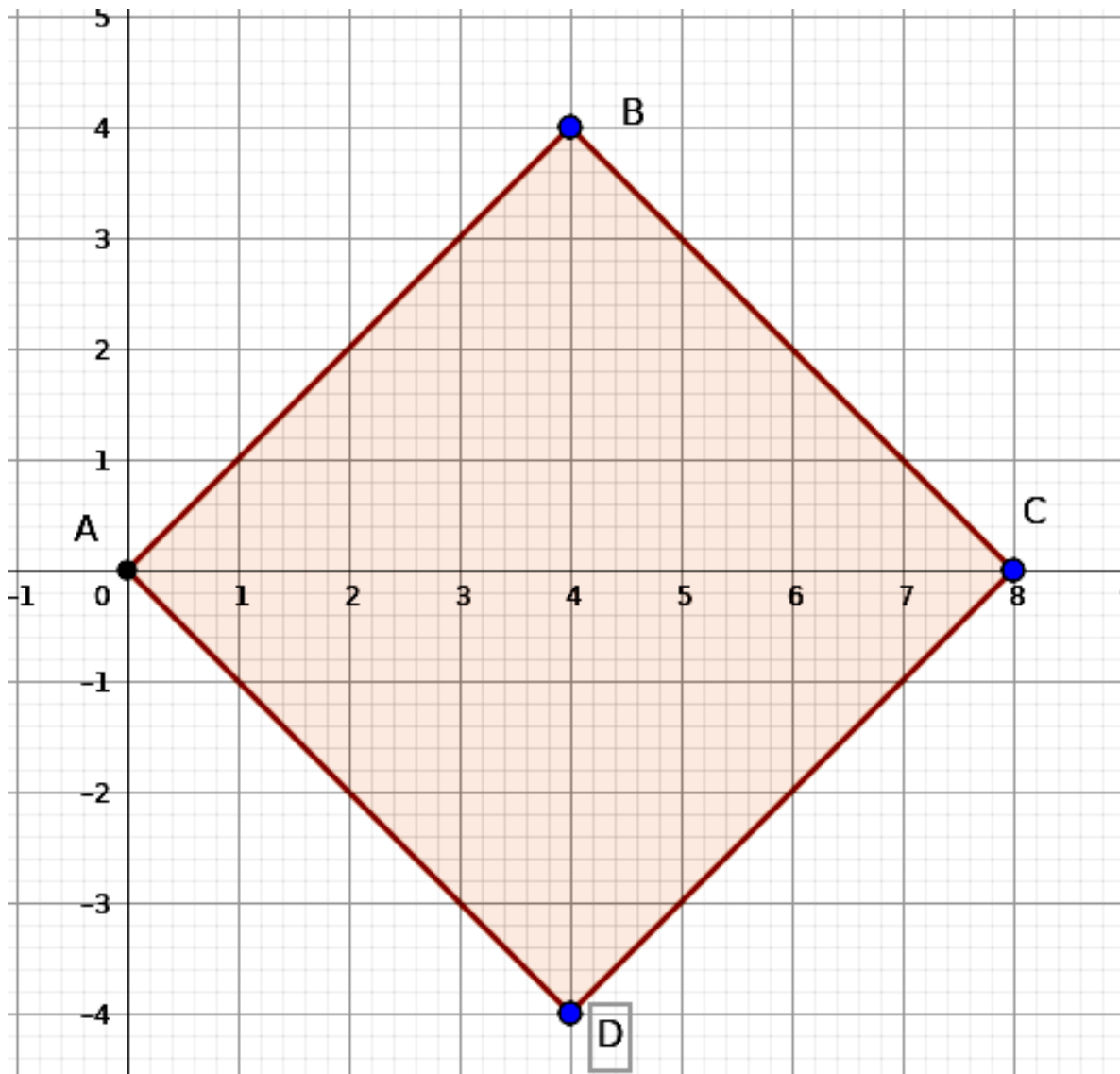
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## Question. 17.

Draw the co-ordinate axes and mark the points  $A(0, 0)$ ,  $B(4, 4)$ ,  $C(8, 0)$  and  $D(4, -4)$ .

- Write the suitable name of the quadrilateral ABCD.
- Find the length of the diagonal BD.

## Solution.



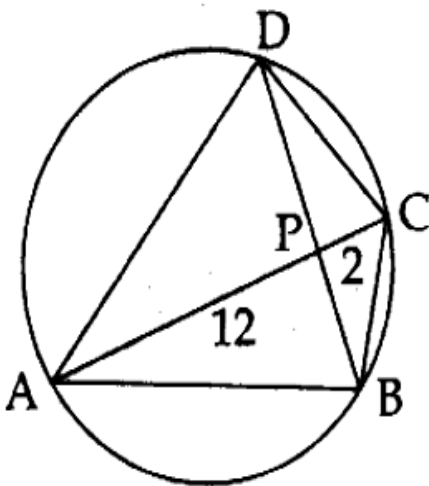
**a) ABCD be a square.**

**b) Length of the diagonal**

$$BD = 8.$$

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**Question. 18.**



Diagonals AC and BD of the cyclic quadrilateral ABCD cuts at P.  
PA = 12 centimetres; PC = 2 centimetres; BD = 11 centimetres.

- (a) If  $PB = x$ , then write PD in terms of  $x$ .
- (b) Find the lengths of PB and PD.

**Solution.**

Given,  $PA = 12\text{cm}$ ,  $PC = 2\text{cm}$ .,  
 $BD = 11\text{cm}$ .

**a)  $PB = x$**

From the figure we can see that

$$PD = 11 - x .$$

b) We know that

$$PA \times PC = PB \times PD$$

$$\text{ie., } 12 \times 2 = x \times (11 - x)$$

$$\Rightarrow 24 = 11x - x^2 .$$

$$\Rightarrow x^2 - 11x + 24 = 0 .$$

$$(x - 8) (x - 3) = 0$$

either  $x - 8 = 0$  , or  $x - 3 = 0$ .

$$\text{if } x - 8 = 0 \quad ; \quad x - 3 = 0$$

$$x = 8 \quad ; \quad x = 3$$

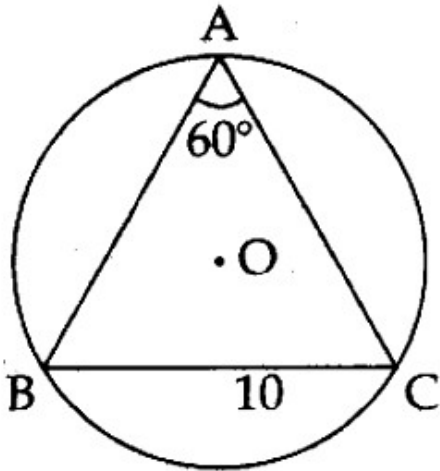
Here when  $PB = 8\text{cm}$ .

then  $PD = 3\text{cm}$ .

When  $PB = 3\text{cm}$  then  $PD = 8\text{cm}$ .

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## Question. 19.



BC is a chord of the circle centred at O.

BC = 10 centimetres  $\angle A = 60^\circ$ . Find the radius of the circle.

### Solution.

Given, BC = 10cm be a chord.(C)

$$\angle A = 60^\circ .$$

$$C = 2r \sin A ; \Rightarrow 10 = 2r \sin 60.$$

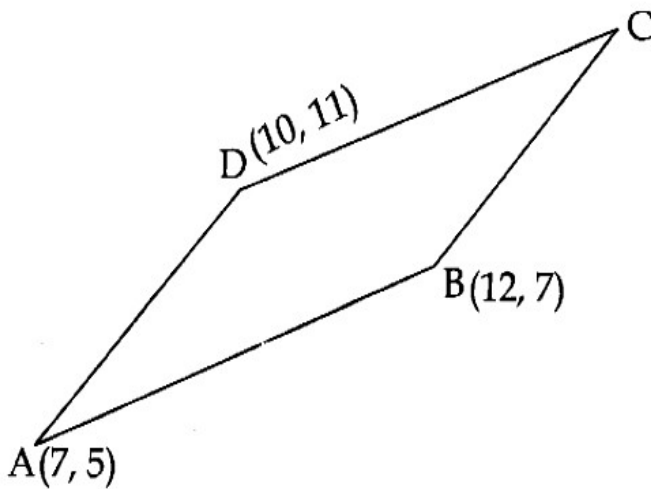
$$\Rightarrow 2r = \frac{10}{\sin 60} ; \Rightarrow 2r = \frac{10}{\frac{\sqrt{3}}{2}} .$$

$$\therefore r = \frac{10}{\sqrt{3}} .\text{cm.}$$

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## Question. 20.



In the figure, co-ordinates of 3 vertices of the parallelogram ABCD are given.

- Write the co-ordinates of C.
- Calculate the length of the diagonal AC.
- Find the co-ordinates of the point of intersection of the diagonals.

### Solution.

The co-ordinates of A, B, C and D are given.

a)  $C (12 + 10 - 7 , 11 + 7 - 5)$

$C (15, 13) .$

b) Length of diagonal AC

[ Use distance formula ] .

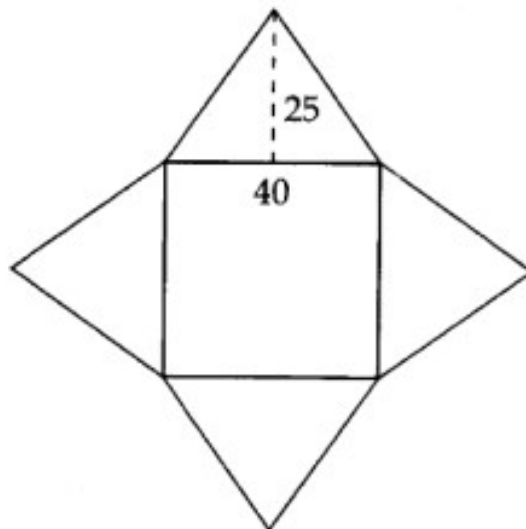
$$\begin{aligned} \text{ie., } AC &= \sqrt{(15-7)^2 + (13-5)^2} \\ &= \sqrt{8^2 + 8^2} = \sqrt{128} \\ &= 8\sqrt{2} . \end{aligned}$$

c) [ Use mid point formula ] .

$$\text{ie., } \left( \frac{12+10}{2}, \frac{7+11}{2} \right) = (11, 9) .$$

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**Question. 21.**



A square pyramid is made by cutting out a paper as in the figure. Side of the square is 40 centimetres. Height of the triangle is 25 centimetres.

- (a) What is the slant height of the square pyramid ?
- (b) Find the height of the pyramid.
- (c) Calculate the volume of the pyramid.

**Solution.**

**Given, side = 40cm.**

**$l = 25\text{cm}$ .**

**a) Slant height of the pyramid  
= 25cm .**

**b) Height of the pyramid**

$$\begin{aligned} &= \sqrt{l^2 - \left(\frac{a}{2}\right)^2} = \sqrt{25^2 - \left(\frac{40}{2}\right)^2} \\ &= \sqrt{625 - 400} = \sqrt{225} = 15\text{cm}. \end{aligned}$$

### c) Volume of the pyramid

$$= \frac{1}{3} a^2 h = \frac{1}{3} \times 40^2 \times 15.$$
$$= 8000 \text{ cm}^3 .$$

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## Question. 22.

The daily wages of 99 workers in a factory is shown in the table.

Daily wages	Number of Workers
500-600	8
600-700	13
700-800	20
800-900	25
900-1000	19
1000-1100	14

- If the workers are arranged on the basis of their daily wages, at what position does the median wage fall ?
- What is the median class ?
- Find the median of the wages.

## Solution.

Daily Wages	Number of workers	Daily Wages	cf
500-600	8	Up to 600	8
600-700	13	Up to 700	21
700-800	20	Up to 800	41
800-900	25	Up to 900	66
900-1000	19	Up to 1000	85
1000-1100	14	Up to 1100	99
Total	99		

$$N = 99$$

a) Median  $\left(\frac{n+1}{2}\right)^{th}$  workers wage

$$= \left( \frac{99+1}{2} \right) \text{th workers wage}$$

$$= 50^{\text{th}} \text{ workers wage.}$$

$\therefore$  Median position = 50.

b) Median class = 800 - 900.

c) Since  $d = 900 - 800 / 25$   
 $= 100/25 = 4$

$$\text{SO, } X_{42} = 800 + \frac{d}{2} = 800 + \frac{4}{2}$$

$$= 800 + 2 = 802.$$

$$\therefore \text{Median} = X_{50} .$$

$$= X_{42} + 8d$$

$$= 802 + 8 \times 4$$

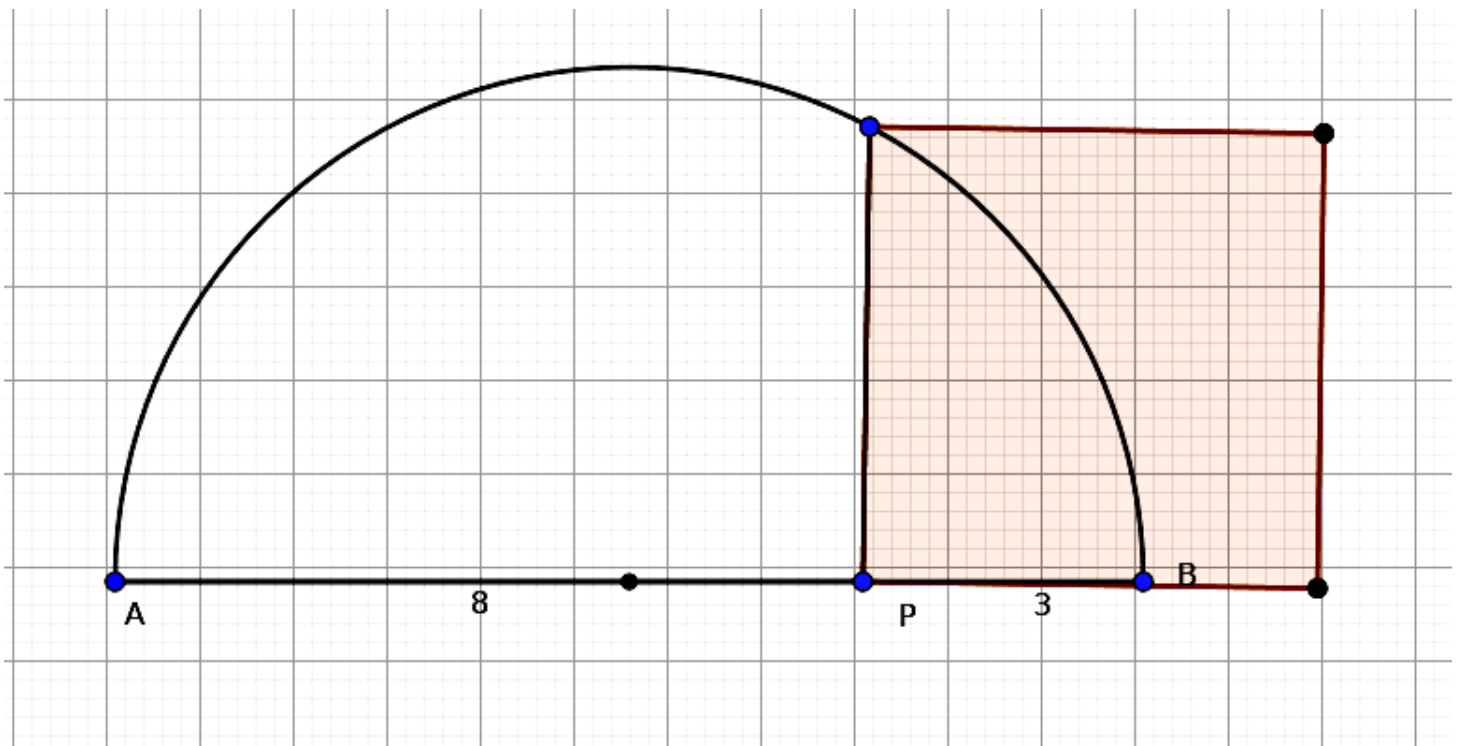
Wages = Rs.834/- .

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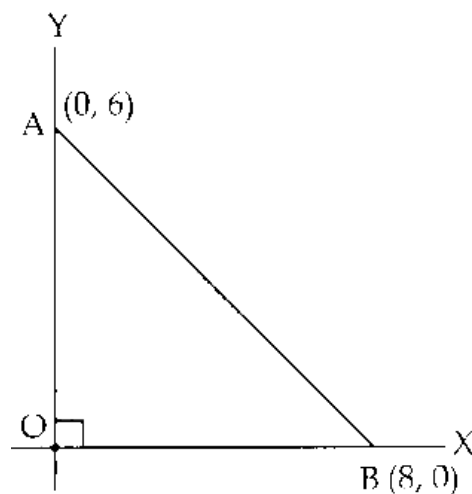
## Question. 23.

Draw a rectangle of area 24 square centimetres. Draw a square of area equal to the area of this rectangle.

## Solution.



## Question. 24.



In the figure, (0, 6) and (8, 0) are coordinates of the points A and B.  
A circle of diameter AB is to be drawn.

- (a) Find the coordinates of the centre of the circle.
- (b) Find the radius of the circle.
- (c) What is the equation of the circle ?

**Solution.**

**Given A = (0, 6) ; B = (8, 0)**

**a) Centre of the circle**

**[ find the mid point ]**

$$\text{ie., } \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\Rightarrow \left( \frac{0+8}{2}, \frac{6+0}{2} \right) = (4, 3).$$

**b) Given, AB diameter**

$$\text{AB} = \sqrt{8^2 + 6^2} \therefore \sqrt{64 + 36} = 10.$$

**[ Using distance formula ]**



$$\therefore \text{Radius} = \frac{10}{2} = 5.$$

**c) Equation of the circle**

$$(x - a)^2 + (y - b)^2 = r^2 .$$

$$\Rightarrow (x - 4)^2 + (y - 3)^2 = 5^2 .$$

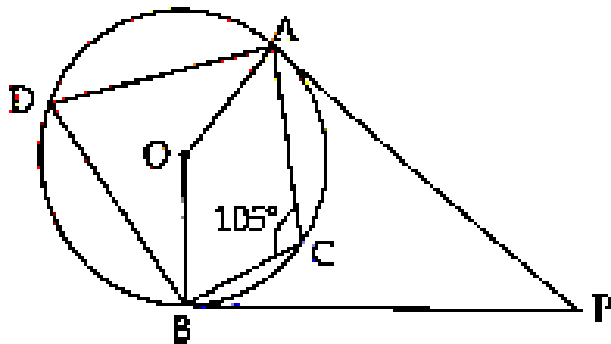
$$\Rightarrow x^2 - 8x + 16 + y^2 - 6y + 9 = 25.$$

$$\Rightarrow x^2 + y^2 - 8x - 6y = 0.$$

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## Question. 25.

5.



PA and PB are two tangents to the circle centred at O.  
 $\angle ACB = 105^\circ$ . Find the angles given below.

(a)  $\angle ADB =$  \_\_\_\_\_

(b)  $\angle AOB =$  \_\_\_\_\_

(c)  $\angle APB =$  \_\_\_\_\_

(d)  $\angle ABP =$  \_\_\_\_\_

(e)  $\angle ABO =$  \_\_\_\_\_

## Solution.

$$\text{a) } \angle ADB = 180 - 105 = 75^\circ .$$

$$\text{b) } \angle AOB = 2 \times 75 = 150^\circ .$$

$$\text{c) } \angle APB = 180 - 150 = 30^\circ .$$

$$\text{d) } \angle ABP = \angle D = 75^\circ .$$

$$\begin{aligned} \text{e) } \angle ABO &= \frac{180 - 150}{2} = \frac{30}{2} \\ &= 15^\circ . \end{aligned}$$

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## Question. 26.

There are two cylindrical wooden blocks with diameter 60 centimetres and height 60 centimetres.

A largest cone is carved out from one block and a largest sphere from the other.

- What is the volume of the cylinder ?
- Find the volume of the cone.
- Find the radius of the sphere.
- Calculate the volume of the sphere.
- Find the ratio of the volumes of the cone and the sphere.

## Solution.

Given, height of the cylindrical block = 60cm.

Diameter = 60cm.;  $r = 30\text{cm}$ .

a) Volume of the cylinder

$$\begin{aligned} &= \pi r^2 h = \pi \times 30^2 \times 60 \\ &= 54000\pi \text{ cm}^3. \end{aligned}$$

b) Volume of the cone

$$\begin{aligned} &= \frac{1}{3} \times \pi r^2 h = \frac{1}{3} \times 54000\pi \\ &= 18000\pi \text{ cm}^3. \end{aligned}$$

c) Radius of the sphere

Here diameter of the cylinder be equal to the diameter of the sphere

$$\therefore \text{Radius} = 30 \text{ cm}.$$

**d) Volume of the sphere**

$$= \frac{4}{3} \times \pi r^3 \Rightarrow \frac{4}{3} \times \pi \times 30^3 .$$

$$= 36000 \pi \text{ cm}^3 .$$

**e) Ratio of the volumes of the cone and sphere**

$$\text{ie.,} = 18000\pi : 36000 \pi$$

$$= 1 : 2 .$$

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### Question. 27.

- (a) Find the sum of first 20 natural numbers.  $\frac{210}{2}$
- (b) Write the algebraic expression of the arithmetic sequence 5, 9, 13, \_\_\_\_\_
- (c) Find the sum of first 20 terms of the arithmetic sequence 5, 9, 13, \_\_\_\_\_  
160

**Solution.**

**Given first 20 natural numbers.**

$$\begin{aligned} \text{a) } S_{20} &= \frac{n(n+1)}{2} = \frac{20(20+1)}{2} \\ &= 10 \times 21 = 210. \end{aligned}$$

**b) Given sequence**

$$= 5, 9, 13, \dots$$

$$f = 5 ; d = 9 - 5 = 4.$$

**Algebraic expression**

$$\begin{aligned} x_n &= dn + (f - d) \\ &= 4n + (5 - 4) . \\ &= 4n + 1. \end{aligned}$$

**c) Given sequence**

$$= 5, 9, 13, \dots$$

$$n = , f = 5, d = 9 - 5 = 4.$$

$$S_{20} = \frac{n}{2} [2 + (n - 1) d]$$

$$\begin{aligned}
 &= \frac{20}{2} [2 \times 5 + (20 - 1) 4] \\
 &= 10 [10 + 19 \times 4] \\
 &= 10 \times 86 = 860.
 \end{aligned}$$

OR

Do it yourself by this formula.

$$\frac{d}{2} n^2 + \left( f - \frac{d}{2} \right) n$$

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## Question. 28.

A child sees the top of a telephone tower at an elevation of  $80^\circ$ . Stepping 20 metres back, he sees it at an elevation of  $40^\circ$ .

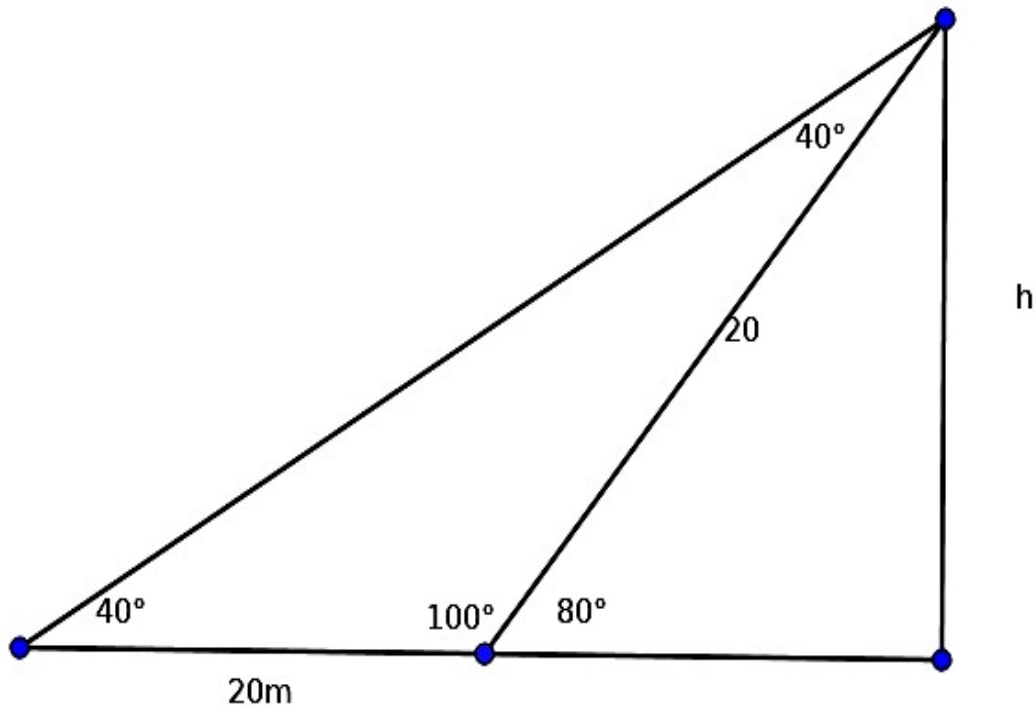
- Draw a rough figure.
- Calculate the height of the tower.

$$\left[ \begin{array}{l} \sin 40^\circ = 0.64 ; \cos 40^\circ = 0.77 ; \tan 40^\circ = 0.84 \\ \sin 80^\circ = 0.98 ; \cos 80^\circ = 0.17 ; \tan 80^\circ = 5.7 \end{array} \right]$$

3/19/20

**Solution.**

**a)**



**b)**  $\sin 80 = \frac{h}{20}$

$h = \sin 80 \times 20. \Rightarrow 0.98 \times 20$

**Height of the tower = 19.6..**

.....**drvsvr**

## Question. 29.

5001

Diagonals of a quadrilateral are the lines joining its opposite vertices.

What about the diagonals of a polygon ?

The lines from one vertex to the adjacent two vertices are not diagonals. They are the sides of the polygon. Lines to all other vertices are diagonals.

In a quadrilateral, only one diagonal can be drawn from one vertex. If we draw from all 4 vertices, we get 4 diagonals. But 2 among them are the same. In a pentagon, from one vertex, 2 diagonals can be drawn.

Therefore total number of lines is  $5 \times 2 = 10$ .

But 5 among them are the same.

So number of diagonals in a pentagon =  $\frac{5 \times 2}{2} = 5$ .

Now complete the table given below :

Polygon	Number of sides	Number of diagonals from one vertex	Total number of diagonals
Quadrilateral	4	1	$\frac{4 \times 1}{2} = 2$
Pentagon	5	2	$\frac{5 \times 2}{2} = 5$
Hexagon	6	3	$\frac{6 \times 3}{2} = 9$
Heptagon	7	.....	.....
Decagon	10	.....	.....
n sided polygon	n	n - 3	.....



## Solution.

Heptagon	7	4	$\frac{7 \times 4}{2} = 14$
Decagon	10	7	$\frac{10 \times 7}{2} = 35$
N side polygon	n	n - 3	$\frac{n(n-3)}{2}$

.....drvsvr

**SSLC Examination March 2023**

**Mathematics - English Version.**

**Detailed Solutions with Questions.**

*Prepared by Dr. V. S. RaveendraNath.*

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