MODAL PAPER OF SSC PUBLIC EXAMINATIONS 2024-25 BY SSC BOARD(AP)

MATHEMATICS (ENGLISH VERSION)

1. Find the prime factorization of 30.

Sol:
$$30 = 2 \times 3 \times 5$$

2. Assertion: Sum of the zeroes of a Quadratic polynomial

$$2x2+3x-4$$
 is $-3/2$

Reason: Sum of the zeroes of a Quadratic polynomial $ax^2 + bx + c$ is. c/a

Now, choose the correct answer from the following.

- A) Both Assertion and Reason are true, Reason is supporting the assertion.
- B) Both Assertion and Reason are true but Reason is not supporting the assertion.
- C) Assertion is true, but the Reason is false.
- D) Assertion is false, but the reason is true.

Sol: C

3. The general form of linear equation in two variables is

Sol:
$$ax + by + c = 0$$
 $(a^2 + b^2 \neq 0)$

4. If nth terms of an A.P is an = 2n - 6 then

Match the following.

i)
$$a_2$$
 p) 0

Choose the correct answer.

Sol:C

5. Statement-1: All similar triangles are congruent.

Statement-II: All right angled isosceles triangles are similar.

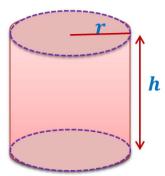
Now, choose the correct answer.

- A) Both statements are true.
- B) Statement 1 is true and Statement II is false.
- C) Statement 1 is false and statement II is true.
- D) Both statements are false.

Sol: C

- 6. A person standing 20 meters away from the base of a building observes that the angle of elevation to the top of the building is 45° then the height of the building is
- **Sol**: 20m
- 7. How many tangents can a circle have?
- Sol: Infinite.
- 8. Draw a rough figure of cylinder with height h cm and base radius r cm.

Sol:



- 9. If p(E) = 0.05, what is the probability of 'not E'?
- Sol: $P(\bar{E}) = 1 P(E) = 1 0.05 = 0.95$
- 10. Zero of the polynomial of ax + b is

A)b/a B)a/b C)-a/b D)-b/a

Sol: D

- 11. If $4 \cot A=3$ then $\tan A=$
- A)3/5
- B)4/5
- C)4/3
- D)3/4

Sol: C

- 12. If x=1/x then the roots are
- A) 1 B) -1
- C) A, B
- D) None
- 0

Sol: C

SECTION-II

Note: i) Answer all the questions.

8x2=16 M

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- ii) Each question carries 2 marks.
- 13. Find the volume of a cylinder with radius of base 6 cm and height 7 cm.

Sol: *Volume of cylinder* =
$$\pi r^2 h = \frac{22}{7} \times 6 \times 6 \times 7 = 22 \times 36 = 792 \text{ cm}^2$$

14. Find a Quadratic polynomial whose sum and product of the zeroes are 3 and 2 respectively.

Sol:
$$\alpha + \beta = -3$$

 $\alpha\beta = 2$
 $p(x) = k[x^2 - (\alpha + \beta)x + \alpha\beta]$
 $= k[x^2 - (-3)x + 2]$
 $= k[x^2 + 3x + 2]$

One quadratic polynomial = $[x^2 + 3x + 2]$ (When k=1)

15. Check whether the following are Quadratic Equations or not.

i)
$$(x-2)^2+1=2x-3$$

Sol:
$$(x-2)^2 + 1 = 2x - 3$$

$$\Rightarrow x^2 - 4x + 4 + 1 - 2x + 3 = 0$$

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

It is of the form $ax^2 + bx + c = 0$ (a = 1, b = -6, c = 8)

The given equation is a quadratic equation.

ii)
$$x(x+1)+8=(x+2)(x-2)$$

Sol:
$$x(x+1) + 8 = (x+2)(x-2)$$

 $\Rightarrow x^2 + x + 8 = x^2 - 2^2$
 $\Rightarrow x^2 + x + 8 - x^2 + 4 = 0$
 $\Rightarrow x + 12 = 0$

It is not of the form $ax^2 + bx + c = 0$

The given equation is not a quadratic equation

- 16. Give an example for
- i) Similar figures

ii) non similar figures

Sol:

(i) Similar figures:

Example: 1. All squares 2. All circles. 3. All equilateral triangles.

(ii) Non-similar figures:

Examples: 1. Square, Rectangle 2. Rectangle, Rhombus

- 17. Find the coordinates of mid point of the line segment joining (cos 0, 0) and (0, sin 90°)
- **Sol**: $(\cos 0, 0) = (1,0)$ and $(0, \sin 90^\circ) = (0,1)$

$$Midpoint = \left(\frac{1+0}{2}, \frac{0+1}{2}\right) = \left(\frac{1}{2}, \frac{1}{2}\right)$$

- 18. Express the ratios cos A and tan A in terms of sin A.
- Sol: $\cos A = \sqrt{1 \sin^2 A}$

$$\tan A = \frac{\sin A}{\cos A} = \frac{\sin A}{\sqrt{1 - \sin^2 A}}$$

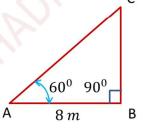
19. Draw a diagram for the following situation. A boy observed the top of an eletric pole at an angle of elevation of 60° when the observation point is 8 meters away from the foot of the pole.



Electric pole=BC

Observation point=A

Angle of elevation $= \angle BAC = 60^{\circ}$



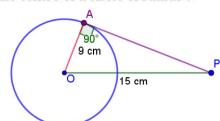
- 20. Calculate the length of tangent from a point 15 cm. away from the centre of a circle of radius 9 cm.
- Sol: Distance (d)=15 cm; radius(r)=9cm

length of tangent(l) = $\sqrt{d^2 - r^2}$

$$=\sqrt{15^2-9^2}$$

$$=\sqrt{225-81}$$

$$=\sqrt{144}=12cm$$



SECTION-III

8x432 M

Note: i) Answer all the questions.

- ii) Each question carries 4 marks.
- 21. One card is drawn from a well-shuffled deck of 52 cards. Find the probability of getting

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- i) a king of black colour
- ii) a red face card.
- Sol: Total number of cards=52, n(S)=52

$$P(E) = \frac{\text{Number of outcomes favourable to E}}{\text{Number of all possible outcomes}} = \frac{n(E)}{n(S)}$$

(i) K=Event getting a king of red colour card

$$n(K)=2$$

$$P(a \ king \ of \ red \ colour) = P(K) = \frac{2}{52} = \frac{1}{26}$$

(ii) F=Event getting a red face card

$$n(F)=6$$

$$P(a \ red \ face \ card) = \frac{6}{52} = \frac{3}{26}$$

- 22. Write the formula to find the mode of a grouped data and explain the terms involved in it.
- Sol:Fist we locate a class with the maximum frequency, called the modal class.

$$Mode = l + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2}\right) \times h$$

Where $l = lower \ limit \ of \ the \ modal \ class$

 $f_1 = f$ requency of the modal class

 $f_0 = f$ requency of the class preceding the modal class

 $f_2 = f$ requency of the class succeeding the modal class

h = size of the modal class

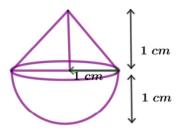
- 23. A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1 cm and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .
- Sol: Cone: r=1 cm, h=1 cm

Volume of the solid

= volume of the conical part + volume of the hemispherical part

$$= \frac{1}{3}\pi r^2 h + \frac{2}{3}\pi r^3$$

$$= \frac{1}{3}\pi \times 1 \times 1 \times 1 + \frac{2}{3}\pi \times 1 \times 1 \times 1$$



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$$= \frac{1}{3}\pi + \frac{2}{3}\pi$$
$$= \frac{3}{3}\pi = \pi cm^3$$

24. Find two numbers whose sum is 27 and product is 182.

Sol: Let one number = x, The second number = 27 - x

Product of numbers=182

$$x(27 - x) = 182$$

$$27x - x^{2} = 182$$

$$-x^{2} + 27x - 182 = 0$$

$$x^{2} - 27x + 182 = 0$$

$$x^{2} - 13x - 14x + 182 = 0$$

$$x(x - 13) - 14(x - 13) = 0$$

$$(x - 13)(x - 14) = 0$$

$$x - 13 = 0 \quad or \quad x - 14 = 0$$

$$x = 13 = 0$$
 or $x = 14$

If x = 13 the required numbers are 13 and 14.

If x = 14 the required numbers are 14 and 13.

25. Prove that
$$\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\csc A - 1}{\csc A + 1}$$

Sol:
$$\frac{\cot A - \cos A}{\cot A + \cos A} = \frac{\frac{\cos A}{\sin A} - \cos A}{\frac{\cos A}{\sin A} + \cos A}$$
$$= \frac{\cos A \left(\frac{1}{\sin A} - 1\right)}{\cos A \left(\frac{1}{\sin A} + 1\right)}$$
$$= \frac{\left(\frac{1}{\sin A} - 1\right)}{\left(\frac{1}{\sin A} + 1\right)}$$
$$= \frac{\cos ec A - 1}{\cos ec A + 1}$$

26. Find the sum of odd numbers between 0 and 50.

Sol: The odd numbers lying between 0 and 50 are 1, 3, 5, 7, 9 ... 49

These odd numbers are in an A.P.

$$a = 1$$
; $d = 2$; $l = 49$

We know that nth term of AP, $a_n = l = a + (n - 1)d$

$$49 = 1 + (n - 1) 2$$

$$48 = 2(n - 1)$$

$$n - 1 = 24$$

$$n = 25$$

$$S_{\rm n} = \frac{n}{2} \left[a + l \right]$$

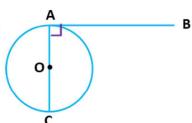
$$S_{25} = \frac{25}{2} \left(1 + 49 \right)$$

$$=\frac{25}{2}\times 50$$

$$= 25 \times 25$$

$$= 625$$

- 27. Prove that the perpendicular at the point of contact to the tangent to a circle passes through the centre.
- **Sol:** O is the centre of the circle and AB is the tangent to the circle at the point A.



Draw ACLAB at point A

But \angle BAO=90 $^{\circ}$ (Tangent is perpendicular to the radius at the point of contact)

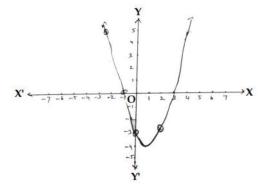
O is lie on AC

The perpendicular at the point of contact to the tangent to a circle passes through the centre

- 28. Due to heavy storm an electric wire got bent as shown in the figure. It followed a mathematical shape. Answer the following questions below.
- a) Name the shape in which the wire is bent.

Sol: Parabola.

b) How many zeroes are there for the polynomial (Shape of the wire)



Sol: Two.

c) The zeroes of the polynomial are

Sol: -1 and 3

d) Sum of the zeroes of the polynomial

Sol:
$$-1+3=2$$

SECTION - IV

Note: i) Answer all the questions.

- ii) Each question carries 8 marks.
- iii) There is an internal choice for each question.

29. a) Prove that $2+5\sqrt{3}$ is irrational.

Sol: Let us assume that $2 + 5\sqrt{3}$ is rational.

Let $2 + 5\sqrt{3} = \frac{a}{b}$ (a, b are coprimes)

$$5\sqrt{3} = \frac{a}{b} - 2 = \frac{a - 2b}{b}$$

$$\sqrt{3} = \frac{a - 2b}{5b} \rightarrow (1)$$

Since 2,3, a and b are integers the R.H.S of (1)ie $\frac{a-2b}{5b}$ is rational

So the L. H. S $\sqrt{3}$ also rational.

But this contradicts the fact that 3 is irrational.

Thus our assumption is false.

So, we conclude that $2 + 5\sqrt{3}$ is irrational

OR

b) Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, then the other two sides are divided in the same ratio.

Given: In ∆ABC, DE ∥

BC which intersects sides AB and A C at D and E respectively

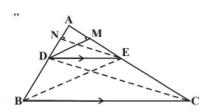
RTP:
$$\frac{AD}{DB} = \frac{AE}{EC}$$

Construction: Join B, E and C, D and then draw DM \perp AC and EN \perp





Area of
$$\triangle BDE = \frac{1}{2} \times BD \times EN$$



$$So, \frac{\operatorname{ar}(\Delta ADE)}{\operatorname{ar}(\Delta BDE)} = \frac{\frac{1}{2} \times \operatorname{AD} \times \operatorname{EN}}{\frac{1}{2} \times \operatorname{BD} \times \operatorname{EN}} = \frac{\operatorname{AD}}{\operatorname{DB}} \to (1)$$

$$Area \ of \ \Delta ADE = \frac{1}{2} \times AE \times DM$$

$$Area \ of \ \Delta CDE = \frac{1}{2} \times EC \times DM$$

$$\frac{\operatorname{ar}(\Delta ADE)}{\operatorname{ar}(\Delta CDE)} = \frac{\frac{1}{2} \times \operatorname{AE} \times \operatorname{DM}}{\frac{1}{2} \times \operatorname{EC} \times \operatorname{DM}} = \frac{\operatorname{AE}}{\operatorname{EC}} \to (2)$$

Area of triangle

$$=\frac{1}{2} \times Base \times Height$$

But \triangle BDE and \triangle CDE are on the same base DE and between same parallels BC and DE.

So
$$ar(\Delta BDE) = ar(\Delta CDE) \rightarrow (3)$$

From (1) (2) and (3), we have

$$\frac{ar(\Delta ADE)}{ar(\Delta BDE)} = \frac{ar(\Delta ADE)}{ar(\Delta CDE)}$$
$$\Rightarrow \frac{AD}{DB} = \frac{AE}{EC}$$

Hence proved

30. a) Find the area of a rhombus if its vertices are (-4, -7), (-1, 2), (8, 5) and (5, -4) taken in order.

Sol: Given points A(-4, -7), B(-1,2), C(8,5), D(5, -4)

$$A(-4,-7) = (x_1, y_1), C(8,5) = (x_2, y_2)$$

$$d_1 = AC = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$= \sqrt{(8+4)^2 + (5+7)^2}$$

$$= \sqrt{(12)^2 + (12)^2}$$

$$= \sqrt{144 + 144} = \sqrt{288} \text{ units}$$

$$B(-1,2) = (x_1, y_1), D(5, -4) = (x_2, y_2)$$

$$d_2 = BD = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$= \sqrt{(5+1)^2 + (-4-2)^2}$$

$$= \sqrt{(6)^2 + (-6)^2}$$

$$= \sqrt{36 + 36} = \sqrt{72} \text{ units}$$

$$B(-1,2) = (x_1, y_1), D(5, -4) = (x_2, y_2)$$

$$d_2 = BD = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$= \sqrt{(5+1)^2 + (-4-2)^2}$$

$$= \sqrt{(6)^2 + (-6)^2}$$

$$= \sqrt{36 + 36} = \sqrt{72} \text{ units}$$

Area of rhombus = $\frac{1}{2} \times d_1 \times d_2 = \frac{1}{2} \times AC \times BD$

$$= \frac{1}{2} \times \sqrt{288} \times \sqrt{72}$$

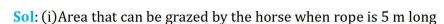
$$= \frac{1}{2} \times \sqrt{144 \times 2} \times \sqrt{36 \times 2}$$

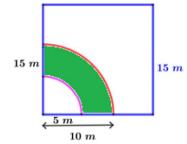
$$= \frac{1}{2} \times 12 \times \sqrt{2} \times 6 \times \sqrt{2}$$

$$= 72 \text{ sq. units}$$

OR

- b) A horse is tied to a peg at one corner of a square shaped grass field of side 15 m by means of a 5 m long rope. Find $_{15\ m}$
- i) the area of that part of the field in which the horse can graze.
- ii) the increse in the gazing area if the rope was 10 m log instead of 5 m.





$$= \frac{\theta}{360} \times \pi r^2$$

$$= \frac{90}{360_4} \times 3.14 \times 5 \times 5$$

$$= \frac{78.5}{4} = 19.625 \, m^2$$

Area that can be grazed by the horse when rope is $10\ m\log$

$$= \frac{90}{360_4} \times 3.14 \times 10 \times 10$$
$$= 78.5 \, m^2$$

- (ii) Increasing in the grazing area = $78.5 19.625 = 58.875 \, m^2$
- 31.a) A box contains 100 discs which are numbered from 1 to 100. If one disc is drawn at random from the box, find the probability that it bears (i) a two-digit number (ii) a perfect square (iii) a number divisible by 5. (iv) a number divisible by 10.
- Sol: A box contains 100 discs which are numbered from 1 to 100.

$$S = \{1,2,3,4,....,99,100\}, n(S) = 100$$

$$P(E) = \frac{Number\ of\ outcomes\ favourable\ to\ E}{Number\ of\ all\ possible\ outcomes} = \frac{n(E)}{n(S)}$$

(i) A= Event getting a two digit number

$$A=\{10,11,12,13,....,99,100\}; n(A)=91$$

$$P(a \text{ two digit number}) = P(A) = \frac{91}{100}$$

(ii) B= Event getting Perfect square number

$$B=\{1,4,9,16,25,36,49,64,81,100\}$$
, $n(B)=10$

$$P(Perfect \ square \ number) = P(B) = \frac{10}{100} = \frac{1}{10}$$

(iii) C=Event getting a numbers divisible by 5

$$C = \{5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100\}; n(C) = 20$$

$$P(a number divisible by 5) = P(C) = \frac{20}{100} = \frac{1}{5}$$

(iv) D= Event getting a numbers divisible by 10

$$D=\{10,20,30,40,50,60,70,80,90,100\}; n(D)=10$$

$$P(a number divisible by 10) = P(D) = \frac{10}{100} = \frac{1}{10}$$

OR

b) The angles of depression of the top and bottom of an 8 m tall building from the top of a multistoreyed building are 30° and 45" respectively. Find the height of the multi-storeyed building and the distance between the two buildings.

The height of the multi-storeyed building=PC=h m

The distance between the two buildings=AC

Let
$$BD = AC = d m$$

$$AB = CD = 8 \text{ m}$$

$$PD = PC - DC = (h - 8)m$$

$$\angle PAC = \angle QPA = 45^{\circ}(Alternate\ interior\ angles)$$

$$\angle PBD = \angle QPB = 30^{\circ}$$
 (Alternate interior angles)

From ∆PDB

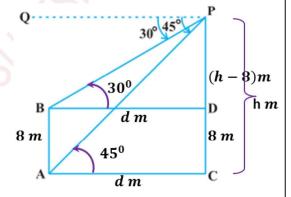
$$\tan 30^{\circ} = \frac{PD}{BD}$$

$$\frac{1}{\sqrt{3}} = \frac{h-8}{d}$$

$$d=(h-8)\sqrt{3}\to(1)$$

From ΔPCA

$$\tan 45^0 = \frac{PC}{AC}$$



$$1 = \frac{h}{d}$$

$$d = h \to (2)$$

From (1) and (2)

$$h = (h - 8)\sqrt{3}$$

$$h = h\sqrt{3} - 8\sqrt{3}$$

$$h\sqrt{3} - h = 8\sqrt{3}$$

$$h(\sqrt{3}-1)=8\sqrt{3}$$

$$h = \frac{8\sqrt{3}}{\sqrt{3} - 1} \times \frac{\sqrt{3} + 1}{\sqrt{3} + 1}$$

$$=\frac{8(3+\sqrt{3})}{3-1}$$

$$=\frac{8(3+\sqrt{3})}{2}$$

$$=4(3+\sqrt{3})$$

The height of the multi – storeyed building = $h = 4(3 + \sqrt{3}) m$

The distance between the two buildings = $d = 4(3 + \sqrt{3})$ m

32.a) The distribution below gives the weights of 30 students of a class. Find the median weight of the students.

Weight (in kg)	40-45	45-50	50-55	55-60	60-65	65-70	70-75
Number of students	2	3	8	6	6	3	2

Sol:

Weight (in	Number of	Cumulative
kg)	students	frequency
40-45	2	2
45-50	3	5
50-55	8	$13 \rightarrow cf$
55-60	6→ <i>f</i>	19
60-65	6	25
65-70	3	28
70-75	2	30
	$n = \sum f_i = 30$	

n = 30,
$$\frac{n}{2} = \frac{30}{2} = 15$$
. So median class is 55-60.

$$l = 55$$
, $cf = 13$, $f = 6$, $h = 5$

Median =
$$l + \left(\frac{\frac{n}{2} - cf}{f}\right) \times h$$

= $55 + \left(\frac{15 - 13}{6}\right) \times 5$
= $55 + \frac{2 \times 5}{6}$
= $55 + \frac{5}{3}$
= $55 + 1.67$
= 56.67

Median weight=56.67 kg.

OR

b) If the sum of first 7 terms of an A.P is 49 and that of 17 terms is 289, find the sum of first n terms.

Sol:
$$S_n = \frac{n}{2}[2a + (n-1)d]$$

 $S_7 = 49 \Rightarrow \frac{7}{2}[2a + (7-1)d] = 49$
 $\Rightarrow [2a + 6d] = \frac{2 \times 49}{7}$
 $\Rightarrow 2a + 6d = 14$
 $\Rightarrow a + 3d = 7 \rightarrow (1)$
 $S_{17} = 289 \Rightarrow \frac{17}{2}[2a + (17-1)d]$
 $= 289$
 $\Rightarrow [2a + 16d] = \frac{2 \times 289}{17}$
 $\Rightarrow 2a + 16d = 34$
 $\Rightarrow a + 8d = 17 \rightarrow (2)$

$$(2) - (1) \Rightarrow a + 8d = 17$$

$$a + 3d = 7$$

$$(-) (-) (-)$$

$$5d = 10$$

$$d = 2$$
Substitute d=2 in (1)
$$a + 3 \times 2 = 7 \Rightarrow a + 6 = 7 \Rightarrow a = 1$$

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

$$= \frac{n}{2} [2 \times 1 + (n - 1)2]$$

$$= \frac{n}{2} [2 + 2n - 2]$$

$$= \frac{n}{2} \times 2n = n^2$$

33. a) Solve the following pair of linear equations graphically.

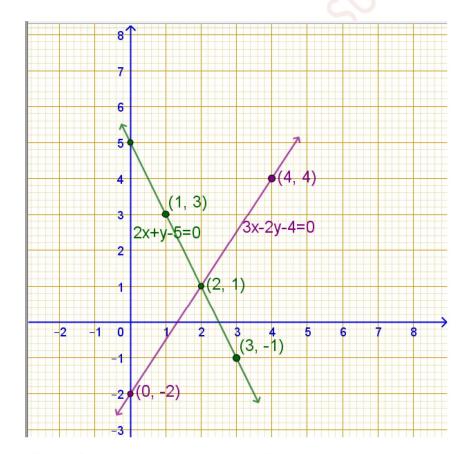
2x+y-5=0; 3x-2y-4=0

Sol:

For equation $2x + y - 5 = 0$			
x	y = 5 - 2x	(x,y)	
1	y = 5 - 2(1) = 5 - 2 = 3	(1,3)	

2	y = 5 - 2(2) = 5 - 4 = 1	(2,1)
3	y = 5 - 2(3) = 5 - 6 = -1	(3, -1)

For equ	uation: $3x - 2y - 4 = 0$	
х	$y = \frac{3x - 4}{2}$	(x,y)
0	$y = \frac{3(0) - 4}{2} = \frac{0 - 4}{2} = \frac{-4}{2} = -2$	(0,-2)
2	$y = \frac{3(2) - 4}{2} = \frac{6 - 4}{2} = \frac{2}{2} = 1$	(2,1)
4	$y = \frac{3(4) - 4}{2} = \frac{12 - 4}{2} = \frac{8}{2} = 4$	(4,4)



The two lines intersect at the point (2, 1).

So, x = 2, y = 1 is the required solution of the pair of linear equations.

OR

b) Form the pair of linear equations in the following situation and find their solution graphically.

3 pens and 4 pencils together coast ₹44 whereas 4 pens and 3 pencils together cost ₹47.

Sol: Let the cost of 1 pen=₹ x and the cost of 1 pencil=₹y

3 pens + 4 pencils = ₹44
$$\Rightarrow$$
 3x + 4y = 44 \rightarrow (1)

4 pens + 3 pencils =
$$47 \Rightarrow 4x + 3y = 47 \rightarrow (2)$$

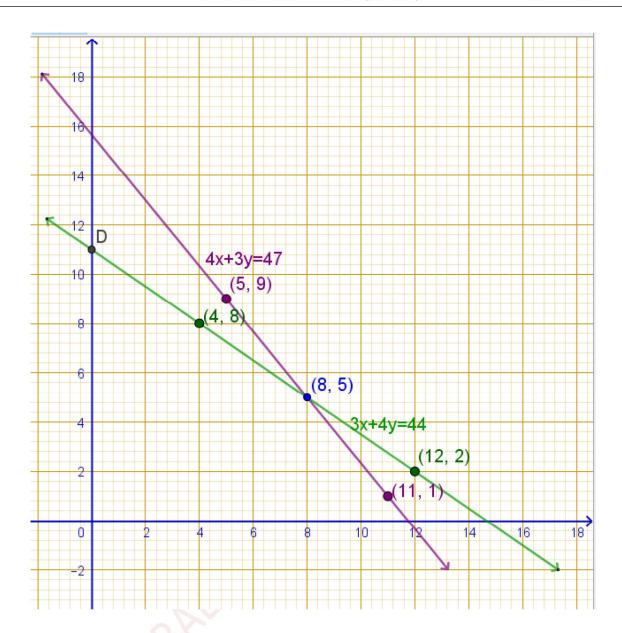
For equation $3x + 4y = 44$			
х	$y = \frac{44 - 3x}{4}$	(x,y)	
4	$y = \frac{44 - 3(4)}{4} = \frac{44 - 12}{4} = \frac{32}{4} = 8$	(4,8)	
8	$y = \frac{44 - 3(8)}{4} = \frac{44 - 24}{4} = \frac{20}{4} = 5$	(8,5)	
12	$y = \frac{44 - 3(12)}{4} = \frac{44 - 36}{4} = \frac{8}{4} = 2$	(12,2)	

For	equation $4x + 3y = 47$	
х	$y = \frac{47 - 4x}{3}$	(x, y)
5	$y = \frac{47 - 4(5)}{3} = \frac{47 - 20}{3} = \frac{27}{3} = 9$	(5,9)
8	$y = \frac{47 - 4(8)}{3} = \frac{47 - 32}{3} = \frac{15}{3} = 5$	(8,5)
11	$y = \frac{47 - 4(11)}{3} = \frac{47 - 44}{3} = \frac{3}{3} = 1$	(11,1)

The two lines intersect at the point (8, 5).

So, x = 8, y = 5 is the required solution of the pair of linear equations.

The cost of 1 pen=₹ 8 and the cost of 1 pencil=₹5



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