

MATHS

BOOKS - CBSE MODEL PAPER

SAMPLE PAPER (MATHEMATICS STANDARD)

Part A

1. If xy=180 and HCF(x,y)=3, then find the LCM(x,y).

The decimal representation of $\frac{14587}{2^1 imes 5^4}$ will terminate after how many places?



2. If the sum of the zeroes of the quadratic polynomial $3x^2-kx+6$ is 3 ,then find the value of K.



3. For what value of k, the pair of linear equations 3x+y=3 and 6x+ky=8 does not have solution.



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4. If 3 chairs and 1 table costs Rs. 1500 and 6 chairs and 1 table costs Rs.2400. Form linear equations to represent this situation.



5. Which term of the A.P. 27, 24, 21,	is zero?
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- A. 9th
- B. 7th
- C. 6th
- D. 10th

Answer: D



6. If the equation $9x^2 + 6kx + 4 = 0$ has equal roots then k=?



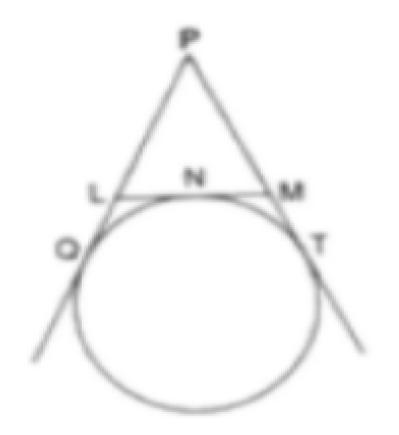
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7. Find the roots of the equation x^2 +7x+10=0 OR

For what value(s) of 'a' quadratic equation 30 ax^2 -6x+1=0 has no real roots?



8. If PQ=28cm, then find the perimeter of Δ PLM





9. If two tangents are inclined at 60° are drawn to a circle of radius 3cm then find length of each tangent.

OR

PQ is a tangent to a circle with centre O at point P. If Δ OPQ is an isosceles triangle, then find \angle OQP.

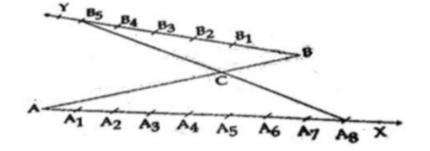


10. In the \triangle ABC, D and E are points on side AB and AC respectively such that DE II BC. If AE=2cm, AD=3cm and BD=4.5cm, then find CE.



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11. In the figure, if B1, B2, B3,..... and A1,A2, A3,.... have been marked at equal distances. In what ratio C divides AB?



A.8:5

В.

C.

D.

Answer:



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12. $\sin A + \cos B = 1$, $A = 30^{\circ}$ and B is an acute angle ,then find the value of B.

A.
$$30^{\circ}$$

B.
$$45^{\circ}$$

C.
$$60^{\circ}$$

D.
$$0^{\circ}$$

Answer: C



13. If
$$x$$
 = $2\sin^2\theta$ and y = $2\cos^2\theta+1$,then find $x+y$

- A. 3
- B. 1
- C. 2
- D. 0

Answer: A



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14. In a circle of diameter 42cm, if an arc subtends an angle of 60° at the centre where

=22/7, then what will be the length of arc.

15. Find the probability of getting a doublet in a throw of a pair of dice.

OR

Find the probability of getting a black queen when a card is drawn at random from a well-shuffled pack of 52 cards

