



MATHS

BOOKS - ASHOK PUBLICATION ASSAM

Model Question Paper

Example

1. Write an example of a rational number.



Watch Video Solution

2. If $2x = 0$, find x .



[Watch Video Solution](#)

3. Give an example of an identity.



[Watch Video Solution](#)

4. What is sum of the interior angles of a regular polygon of n sides?



[Watch Video Solution](#)

5. What is the value of $\sqrt[3]{64}$



[Watch Video Solution](#)

6. $a^m \times a^n \times a^p = ?$



[Watch Video Solution](#)

7. Write the formula of compound interest



[Watch Video Solution](#)

8. Write the squared number from the following :

36



[Watch Video Solution](#)

9. Write the squared number from the following :

49



[Watch Video Solution](#)

10. Write the squared number from the following :

101



Watch Video Solution

11. Write the squared number from the following :

65



Watch Video Solution

12. Write the H.C.F of $2 \times 5 \times p \times q$ and $2 \times 2 \times 5 \times q \times r$



Watch Video Solution

13. For what value of x , $\frac{2x}{3} = 18$?



Watch Video Solution

14. Using appropriate properties find ,

$$-\frac{4}{6} \times \frac{6}{10} + \frac{10}{4} - \frac{6}{10} \times \frac{2}{12}$$



Watch Video Solution

15. Is $\frac{8}{9}$ the multiplicative inverse of $-1\frac{1}{8}$?

Why or why not?



Watch Video Solution

16. Write two properties of a Rhombus?



Watch Video Solution

17. What can you say about the angle sum of a convex polygon with number of sides 7 ?



[Watch Video Solution](#)

18. Define pie diagram.



[Watch Video Solution](#)

19. Find the value of $\sqrt{169} \times \sqrt{64} \times \sqrt{16}$



[Watch Video Solution](#)

20. State true or false : For any integer m , $m^2 < m^3$. Why?



[Watch Video Solution](#)

21. Convert 3: 4 to percentage.



[Watch Video Solution](#)

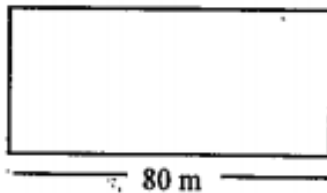
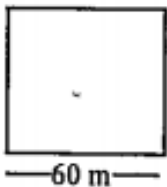
22. Find the product:

$$(4p^2 + 5p + 7) \times 3p$$



Watch Video Solution

23. A square and a rectangular field with measurements as given in the figure have the same perimeter, which field has a larger area?



Watch Video Solution

24. Find the value of.

$$\left(\frac{1}{2}^2 + \left(\frac{1}{3} \right)^2 + \left(\frac{1}{4} \right)^2 \right)$$



Watch Video Solution

25. Suppose 2 kg of usgar contains 9×10^6 crystals. How many sugar crystals are there in 5 kg of sugar?



Watch Video Solution

26. Resolve into factors : $y^2 + 7y + 10$



[Watch Video Solution](#)

27. If 21y5 is a multiple of 9, where y is digit, what is the value of y?



[Watch Video Solution](#)

28. Solve:

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



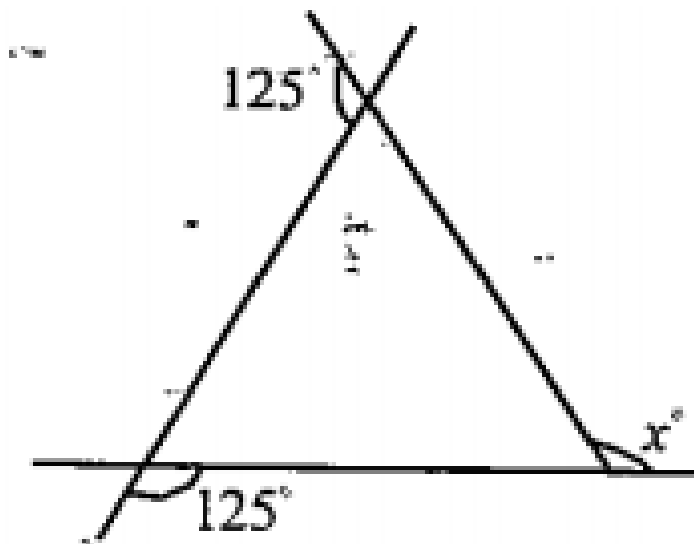
[Watch Video Solution](#)

29. The ages of Hari and Harry are in the ratio 5:7. Four years from now the ratio of their ages will be 3:4. Find their present ages.



[Watch Video Solution](#)

30. Find x from the following figure.



Watch Video Solution

31. Can a trapezium have all angles equal? Can it have all sides equal? Explain.





[Watch Video Solution](#)

32. Find the smallest square number that is divided by each of the number, 4,9 and 10.



[Watch Video Solution](#)

33. In a right triangle ABC, $\angle B = 90^\circ$ If AC = 5 cm, BC = 3 cm, Find AB.



[Watch Video Solution](#)

34. In a right triangle ABC , $\angle B = 90^\circ$

If $AB = 6$ cm, $BC = 8$ cm, Find AC ,



Watch Video Solution

35. In a right triangle ABC , $\angle B = 90^\circ$

If $AC = 13$ cm, $BC = 5$ cm, Find AB .



Watch Video Solution

36. Consider the following pattern.

$$2^3 - 1^3 = 1 + 2 \times 1 \times 3$$

$$3^3 - 2^3 = 1 + 3 \times 2 \times 3$$

$$4^3 - 3^3 = 1 + 4 \times 3 \times 3$$

Using the above pattern, find the value of the following.

$$7^3 - 6^3$$



[Watch Video Solution](#)

37. Consider the following pattern.

$$2^3 - 1^3 = 1 + 2 \times 1 \times 3$$

$$3^3 - 2^3 = 1 + 3 \times 2 \times 3$$

$$4^3 - 3^3 = 1 + 4 \times 3 \times 3$$

Using the above pattern, find the value of the following.

$$7^3 - 6^3$$



Watch Video Solution

38. Construct the quadrilateral DEAR, whose
 $DE = 4 \text{ cm}$, $EA = 5 \text{ cm}$, $AR = 4.5 \text{ cm}$,
 $\angle E = 60^\circ$ and $\angle A = 90^\circ$



Watch Video Solution

39. Prove that the sum of the measures of four angles of a quadrilateral is 360° .



Watch Video Solution

40. Draw a pie chart showing the following information. The table shows the preferred by a group of people.

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36



Watch Video Solution

41. Draw a bar-diagram of the following data.

Children who prefer	School-A	School-B	School-C
Walking	40	55	15
Cycling	45	25	35



[Watch Video Solution](#)

42. Is there a number which is equal to its cube but not equal to its square? If yes, find it.



[Watch Video Solution](#)

43. If the price of tea increased by 20% by what percent must the consumption reduced to keep the expense the same?



Watch Video Solution