



# MATHS

## BOOKS - CHETAN MATHS (TAMIL ENGLISH)

### MODEL ACTIVITY SHEET

#### Question

1. What is the ratio of 1mm 1cm ?



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2. Yamini and fatima, two students of class X of school, together contribute ₹ 1500 towards the Prime minister's Relief fund to help the flood victims. Write a linear equation using two variables which satisfies the data.



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3. If  $T = \{1,2,3,4,5\}$  and  $M = \{4,5,6,7,8\}$ , then what is  $T \cap M$ ?



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4. What is the class mark of 45-55.



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5. Write the following surd in simplest form.

$$\frac{-4}{5}\sqrt{75}$$



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6. Find the value of  $\frac{-4}{5}\sqrt{75}$



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7. Mrs. Hinduja's age is 50 years. Last year her taxable income was rs 16,30,000. How much income tax she has to pay ?



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8. Consider a small unit of a factory where there are employees, a supervisor and four labourers. The labourers draw salary of rs9,000 per month each while the supervisor get rs 23,000 per month. Calculate median salary of this unit of factory.



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9. If one card is draw from well shuffled deck of 52 cards, then probability of getting red face

card is.

A.  $\frac{3}{13}$

B.  $\frac{3}{4}$

C.  $\frac{3}{26}$

D.  $\frac{1}{13}$

**Answer:**



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10.  $\sqrt{5}m^2 - \sqrt{5}m + \sqrt{5} = 0$  which of the following statement is true for this given equation ?



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11. The equations  $3x - 4y = 7$  and  $9x - 12y = 12$  will have

A. unique solution

B. infinitely many solution

C. no solution

D. two solution

**Answer:**



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**12.** If 28% GST was charged on a scooter having cost rs 50,000 then find the amount of CGST of charged

A. rs800



B. rs7500

C. rs14000

D. rs7000

**Answer:**



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**13.** Find the 25th term of A.P12,16, 20,24, .....



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**14.** Obtain a quadratic equation whose roots are  $-3$  and  $-7$ .



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**15.** The record of a weather station shows that out of the past 250 consecutive days, its weather forecast were correct 175 times. What is the probability that on a given day it was correct?



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16. If  $x=5$  is the root of a equation  $kx^2 - 14x - 5 = 0$ , then find the value of K



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17. Form a Road safety committee of two from 2 boys (B1,B2) and 2 girls (G1,G2). Complete the following activity to write the sample spac.

(a) Committee of 2 boys = \_\_\_\_\_

(b) Committee of 2 girls = \_\_\_\_\_

(c) Committee of one boy and one girls

$B_1G_1$  \_\_\_\_\_

∴ Sample the following = { \_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ }



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**18.** Complete the following table:

	Face value	The share is at	Market value
(i)	₹ 100	discount of ₹ 15	.....
(ii)	₹ 25	.....	₹ 360



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**19.** The sum of two roots of a quadratic equation is 5 and the sum of their cubes is 35. Find the equation.



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**20.** Prashant bought 50 shares of FV  $Rs100$ , having MV  $Rs180$ . Company gave 40% dividend on the shares. Find the rate of return on investment.



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**21.** Medical chek-up of 180 women was conducted in a health centre in a village. 50 of them were short of haemoglobin, 10 suffered form catract and 25 had rspiratory disorders. The remaining women were healthy. Show the information in a pie chart.



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**22.** Fifty seeds were selected at random from each of 5 bags of seeds, and were kept under

standardised condition favourable to germination. After 20 days, the number of seeds which had germinated in each collection were conducted and as follows

Bag	1	2	3	4	5
No. of seeds germinated	40	48	42	39	41

What is the probability of germination of

- (i) More than 40 seeds in a bag.
- (ii) 49 seeds in a bag
- (iii) More than 35 seeds in a bag



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$$23. 5x - 6x + 30 = 0, 5x + 4y - 20 = 0$$



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24. A trader from Surat, Gujrat sold cotton clothes to a trader in Rajkot, Gujarat. The taxable value of cotton clothes is  $Rs2.5$  lacs. What is the amount of Gst at 5% paid by the trader in Rajkot?



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**25.** Find the sum of the all odd natural number from 1 to 150.....



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**26.** The sum of first  $p$ - terms terms of an A.P. is  $q$  and the sum of first  $q$  terms is  $p$ , find the sum of first  $(p + q)$



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**27.** M/s. jay Chemicals purchased a liquid soap for rs 8000 (with GST) and sold it to the consumers for rs 10,000(withGST). Rate of GST is 18%. Find the amount of CGST and SGST to be paid by jay chemicals.



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**28.** The sum of father's age and twice the age of his son is 70 . If we double the age of the

father and add it to the age of his son, the sum is 95 find their present ages.



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**29.** Grouped frequency distribution of supply of milk to hotels and the number of hotels is given in the following table. Find the mode of the supply of milk.

Milk (litre)	1 - 3	3 - 5	5 - 7	7 - 9	9 - 11	11 - 13
No. of hotels	7	5	15	20	35	18



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