



# MATHS

## BOOKS - SRS PUBLICATION

### MODEL PAPER MATHEMATICS

#### Question Bank

1. Subtract 63 from  $(-100 + 7)$

A. 93

B. 100

C. 156

D. -156

**Answer:**



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2. In the following which fraction is not equivalent to  $\frac{3}{7}$

A.  $\frac{5}{9}$

B.  $9/21$

C.  $12/28$

D.  $150/350$

**Answer:**



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3.  $2m+7=21$  is true form  $=7$



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4. One of the acute angle in right angle triangle is  $30^\circ$  then the other angle is

A.  $30^\circ$

B.  $90^\circ$

C.  $70^\circ$

D.  $60^\circ$

**Answer:**



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5. Fill ? With appropriate value .

$\div$	8	6
-2	?	$-\frac{1}{3}$
1	$\frac{1}{8}$	$\frac{1}{6}$

A.  $\frac{8}{2}$

B.  $-\frac{1}{4}$

C. -4

D.  $\frac{1}{4}$

**Answer:**



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6. The supplementary angle of  $55^\circ$  is

A.  $105^\circ$

B.  $135^\circ$

C.  $125^\circ$

D.  $145^\circ$

**Answer:**



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7. Angles of a triangle are  $30^\circ$ ,  $110^\circ$ ,  $x^\circ$  then

$x$  is

A.  $50^\circ$

B.  $40^\circ$

C.  $60^\circ$

D.  $15^\circ$

**Answer:**



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8. What is a triangle?



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9. Nani practices yoga regularly for a week as follows

Day	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Minutes	20	35	40	30	25	45	15

The average time spent per day by nani is \_\_\_\_

A. 25 min

B. 32 min

C. 24 min



D. 30 min

**Answer:**



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**10.** If the median of the data 24, 29, 34, 38,  $x$  is 29, then the value of  $x$  is. (i)  $x > 38$  (ii)  $x < 29$   
(iii)  $x$  lies in between 29 and 34 (iv) none

A. more than 38

B. less than 29

C. between 29,34

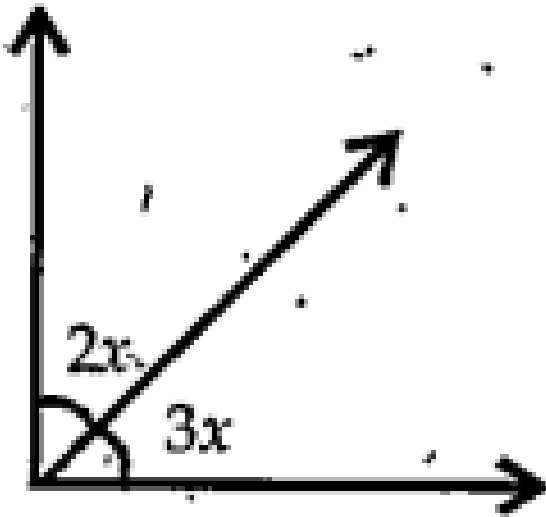
D. none of these

**Answer:**



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11. Write the equation for the adjacent figure.



A.  $3x - 2x = 180^\circ$

B.  $3x + 2x = 180^\circ$

C.  $3x - 2x + 90^\circ$

D.  $3x + 2x = 90^\circ$

**Answer:**



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$$12.011 \times 0.011 = \dots$$



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**13.** A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine flowing 1200 m

below the sea level. What is the vertical distance between them?



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**14.** Farida has 20 marbles Reshma has  $\frac{1}{5}$ th of the number of marbles what Farida has.how many marbles Reshma has ?



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**15.** Find the angle which is equal to its complement



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**16.** Write any two acute angles and any two obtuse angles.



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**17.** Classify the following angles into acute, obtuse and right angles :

$20^\circ$ ,  $50^\circ$ ,  $102^\circ$ ,  $47^\circ$ ,  $125^\circ$ ,  $65^\circ$ ,  $36^\circ$ ,  $90^\circ$ ,  $95^\circ$

and  $110^\circ$



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**18.** Find the median of

0.3, 0.25, 0.32, 0.147, 0.19, 0.2 and 7.1



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**19.** If the cost of each cement bag is ₹326.50 then find the cost of 24 bags of cement.



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**20.** The product of two integers is -165. if one number is -15, Find the other integer.



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21. An elevator descends into a mine shaft at the rate of 6 meters per minute. If the descends starts from 10m above the ground level, how long will it take to reach -350m.



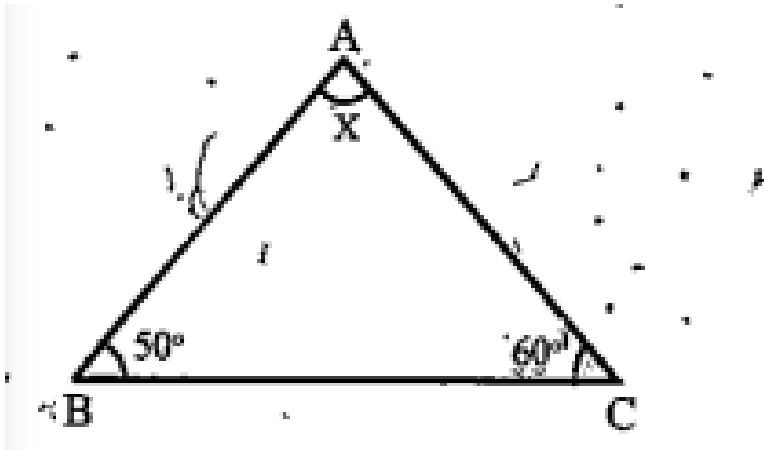
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22. A side of a regular polygon is 3.5 cm. in length The perimeter of the polygon is 17.5 cm. How many sides does the polygon have?



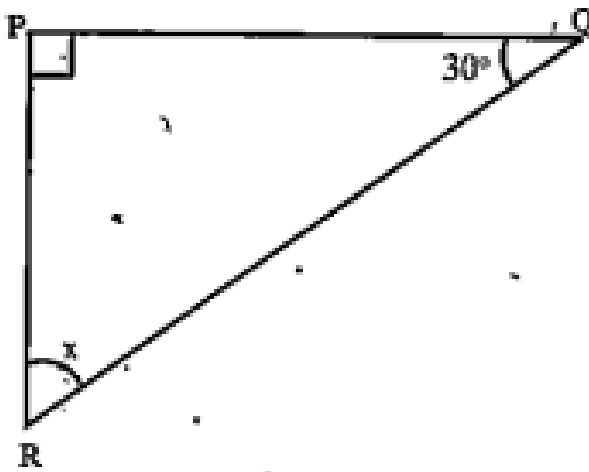
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23. Find the value of the unknown  $x$  in the following diagrams :



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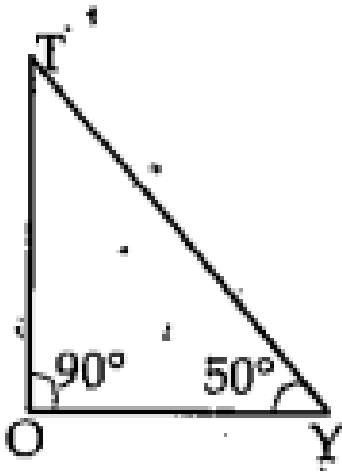
25. Sankar, a fruit vendor sells 100kg of oranges and 75kg of pomegranates. If he makes a profit of Rs.11 per one kg of

pomegranates and loss of Rs.8 per one kg oranges, what will be his overall profit or loss ?



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**26.** Which of the following statements are true in the following diagram.



A.  $OY < OT$

B.  $TY < TO$

C.  $Y < T$

D.  $TY < OY$

**Answer:**



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27. Find the mode of 2,6,5,3,0,3,4,3,2,4,5,2,4,



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28. Find the mode of

2,14,16,12,14,14,16,14,10,14,18,14



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**29.** Solve the following equations using trial and error method.

$$3x-7=5$$



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**30.** Solve the following equations using trial and error method.

$$5-y=-1$$



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**31.** In the class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer. Bharathi attempts all questions but only 9 answers are correct. What is her total score? One of her friends Hema answers only 5 questions correctly. What will be her total score?



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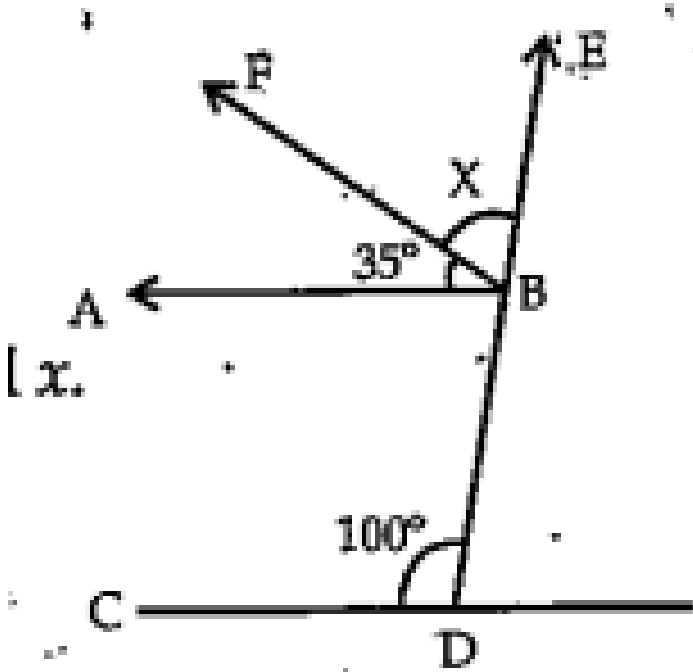
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**33.** A rectangular sheet of paper  $12\frac{1}{2}$  cm Long and  $10\frac{2}{3}$  cm wide. Find its perimeter.



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**34.** In the given figure,  $AB \parallel CD$  and  $DE$  is transversal. Find  $x$ .



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**35.** One of the exterior angles of a triangle is  $125^\circ$  and the interior opposite angles are in the Ratio 2:3. Find the angles of the triangle.



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**36.** The marks in the Mathematice and science of five students of class 7 are given in the table. Exhibit these by the vertical double bar graph.

Name of student	Maths	Science
Praveena	50	60
Venkat	80	75
Uzma	75	70
Joseph	65	75
Ramya	75	60



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**37.** A bag contains 5 red balls and some blue balls, If the probability of drawing a blue ball is double that of a red ball, Find the number of blue balls in the bag.



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**38.** Find the complementary angles of  $43^\circ$

A.  $25^\circ$

B.  $40^\circ$

C.  $89^\circ$

D.  $55^\circ$

**Answer:**



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**39.** Calculate the following.

$$8 \times (-1)$$



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**40.** Calculate the following.

$$(-2) \times 175$$



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**41.** Calculate the following.

$$(-3) \times (-40)$$



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**42.** Calculate the following.

$$(-24) \times (-7)$$



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**43.** Calculate the following.

$$(-7) \div (-1)$$



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**44.** Calculate the following.

$$(-12) \div (+6)$$



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**45.** Calculate the following.

$$(-49) \div (-7)$$



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**46.** Calculate the following.

$$(+ 63) \div (- 9)$$



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**47.** If the length and breadth of a rectangular garden are  $\frac{27}{2}$  and  $\frac{15}{2}$  m respectively then find the area of the garden.



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