ving
$$\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \frac{14}{9}$$
(c) 3/5
(d) 1/2

WWW. 2. Solve for "x"

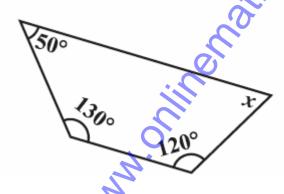
$$\frac{x}{3} + \frac{5}{2} = -\frac{3}{2}$$

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Find the value of the following:

$$\frac{3}{7} + \left(\frac{-6}{11}\right) + \left(\frac{-8}{21}\right) + \left(\frac{5}{22}\right)$$

	com com	
	4. The present age of Jack's mother is three times the present age of Jack. After 5 years their ages will add to 66 years. Find	
	their present ages. (a) 45, 11 (c) 41, 15	
WWW.		N.Cili
	5. The organizers of an essay competition decide that a winner in the competition gets a prize of \$100 and a participant who does not win gets a prize of \$25. The total prize money distributed is	
	\$3000. Find the number of winners, if the total number of participants is 63.	
	(a) 18 (c) 20 (d) 21	
	(b) 19 (d) 21	Chinor
Why.	6. The digits of a two-digit number differ by 3. If the digits are interchanged, and the resulting number is added to the original number, we get 143. What can be the original number?	W.Cli.
	(a) 83 (c) 85	
	(b) 84 (d) 86 (d) 86	

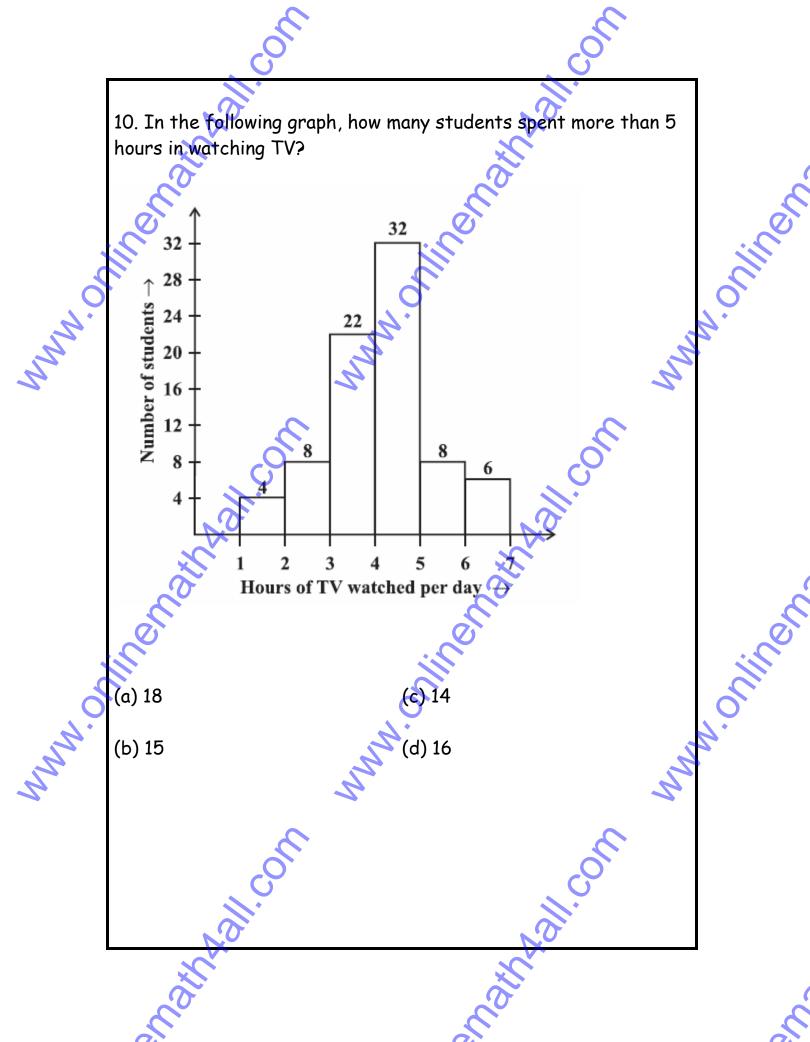


My Cincore

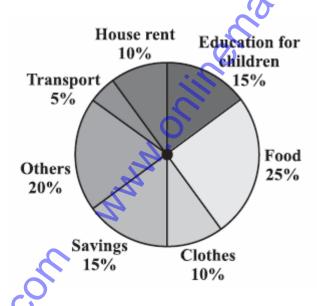
(c) 4 (d) 6 8. Find the number of sides of a regular polygon whose each exterior angle has a measure of 45°.

(a) 8 (b)

9. Find the perimeter of the parallelogram PQRS given below. W. Cilicore MAN ON THE PROPERTY OF THE PARTY OF THE PART (c) 38 cm (a) 36 cm And Cilingua and Color of the C Man of the Collins of My Ochicar



11. In the following pie chart, if the monthly savings of the family is \$3000 what is the monthly expenditure on clothes? MAN OF THE PARTY O



(a) \$1750

(c) \$2250

(b) \$2000

(d) \$2500

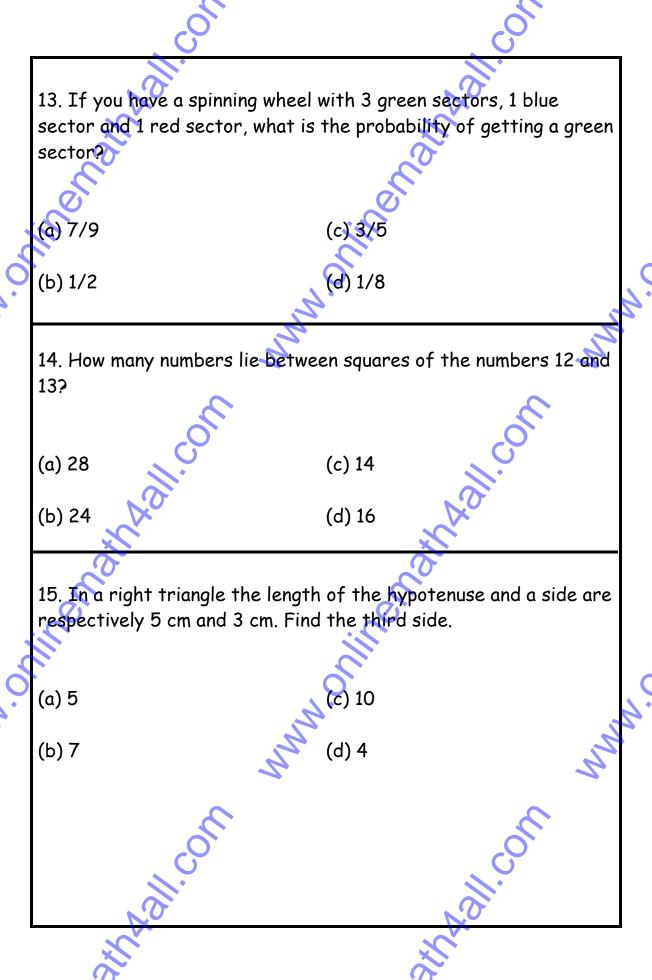
12. A bag has 4 red balls and 2 yellow balls. (The balls are identical in all respects other than color). A ball is drawn from the bag without looking into the bag. What is probability of getting a red ball?

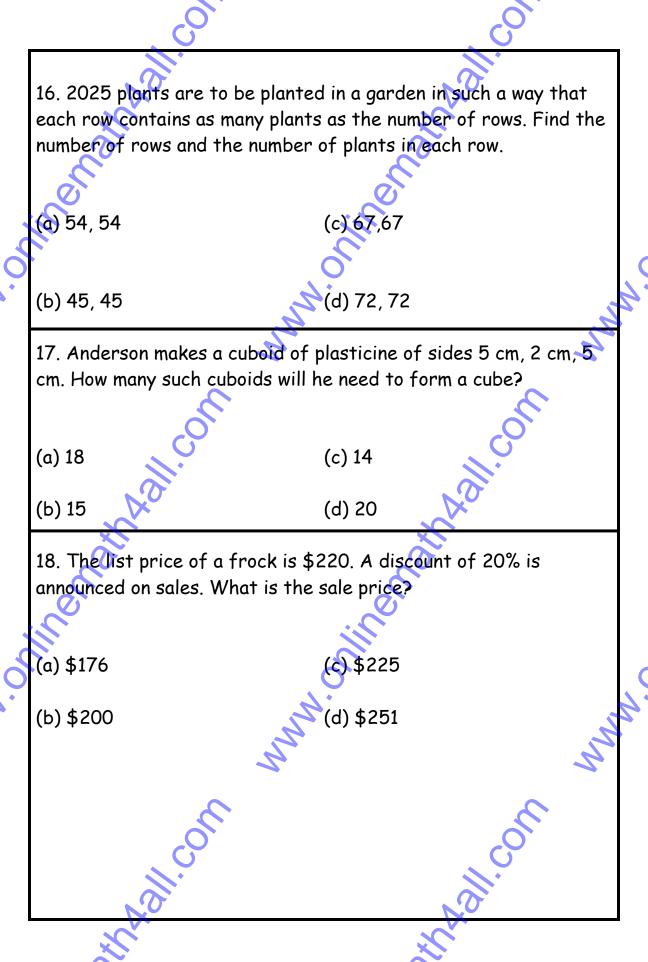
(a) 2/3

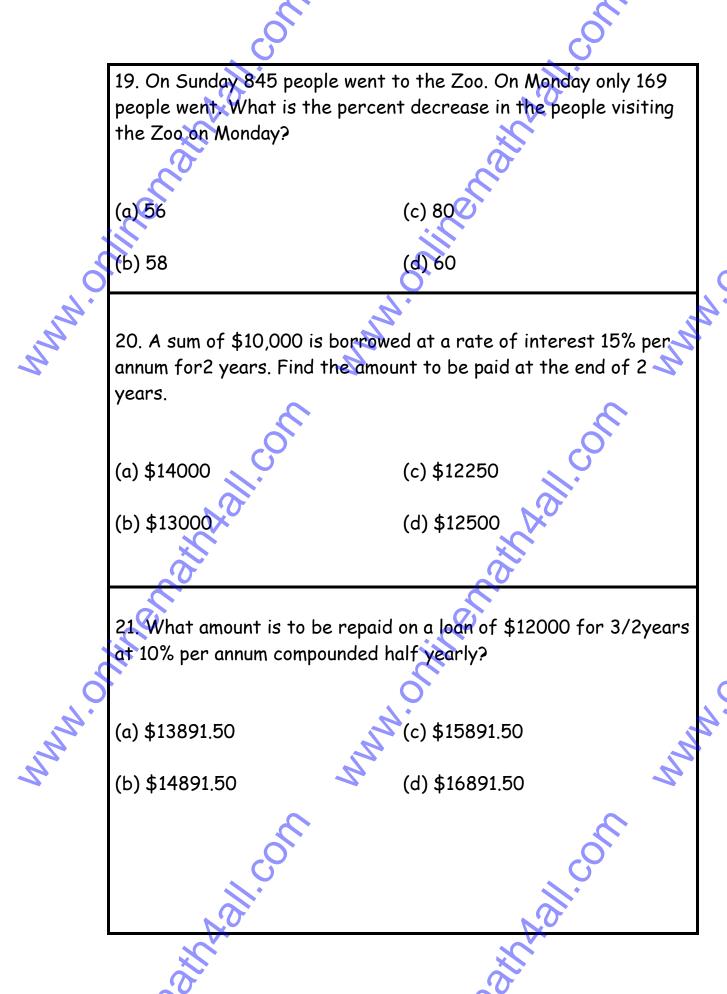
(c) 4/5

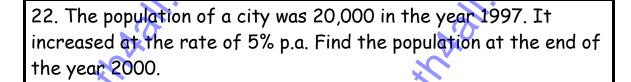
(b) 1/2

(d) 7/8









(a)
$$5xy + 9yz + 3zx + 5x - 4y$$
 (c) $5xy + 9yz + 3zx + 5x + 4y$

(c)
$$5xy + 9yz + 3zx + 5x + 4y$$

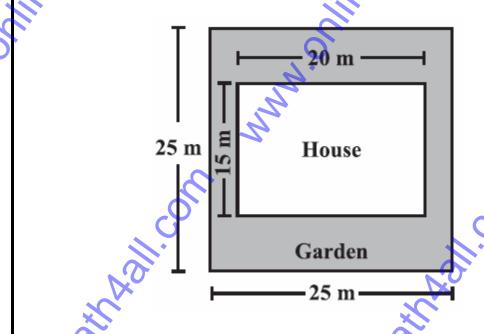
(b)
$$5xy + 9yz + 3zx - 5x - 4y$$
 (d) $5xy + 9yz - 3zx + 5x - 4y$

(d)
$$5xy + 9yz - 3zx + 5x - 4y$$

24. Simplify the expression and evaluate it as directed:

$$3y(2y-7)-3(y-4)-63$$
 for $y=-2$

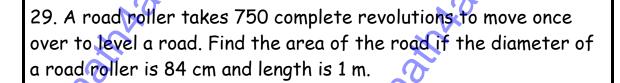
25. Mrs. Peterson has a square plot with the measurement as shown in the figure. She wants to construct a house in the middle of the plot. A garden is developed around the house. Find the total cost of developing a garden around the house at the rate of $$55 per m^2$.



\$1787 (d) \$17877

(b) \$17875 MAN O.

	con	COM	
		pe of a parallelogram whose base is leight is 10 cm. How many such tiles f area 1080 m²?	
	(a) 38000	(c) 45000	dino
hun.	(b) 35000 27. The area of a trapezium s	(d) 40000 haped field is 480 m², the distance	
	•	5 m and one of the parallel side is	
	(a) 44 m (b) 28 m	(c) 11 m (d) 26 m	
	28. The internal measures of a	cuboidal room are 12 m × 8 m × 4 washing all four walls of a room, if	- Office of the second of the
hhh.		5 per m². What will be the cost of	
	(a) \$1277	(c) \$1279	
	(b) \$1278	(d) \$1280	
			20



(a) 980 m²

(c) 3980 m²

(b) 1980 m²

(d) 2980 m²

30. A rectangular paper of width 14 cm is rolled along its width and a cylinder of radius 20 cm is formed. Find the volume of the cylinder

(a) 17400 cm^3

(c) 17600 cm³

(b) 17500 cm³

(d) 17700 cm³

31. Find the value of the following:

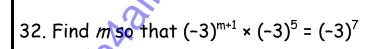
$$\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{4}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$$

(a) 24

(c) 28

(b) 25

(d) 29



(c) 3

(a) 1 (b) 2 33. If the weight of 12 sheets of thick paper is 40 grams, how many sheets of the same paper would weigh 5/2 kilogram?

(a) 990

(c) 690

(b) 750

(d) 510

34. The scale of a map is given as 1:30000000. Two cities are 4 cm apart on the map. Find the actual distance between them.

(a) 2400 km

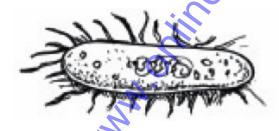
(c) 1600 km

(b) 2200 km

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J Kn (d) 1200 km

35. A photograph of a bacteria enlarged 50,000 times attains a length of 5 cm as shown in the diagram. What is the actual length of the bacteria? If the photograph is enlarged 20,000 times only, what would be its enlarged length?



(a) 10⁻⁶ cm, 4cm

(c) 10⁻⁵ cm, 2cm

(b) 10⁻⁴ cm, 2cm

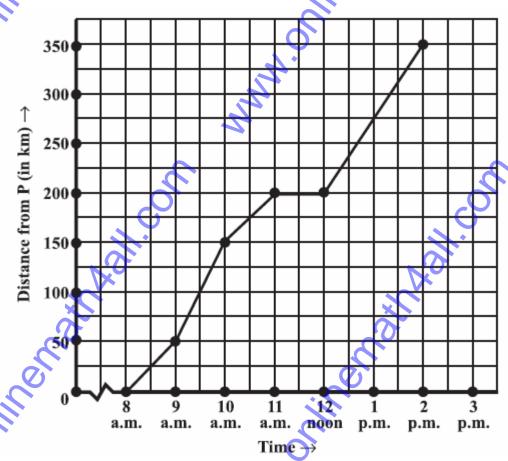
(d) 10⁻⁴ cm, 3cm

36. Find the factors of $3m^2+9m+6$.

- (a) 3(m-1)(m-2)
- (d) 3(m+1)(m-2)
- (b) 3(m+1)(m+2)

William Coll

37. The graph given below describes the distances of a car from a city P at different times when it is traveling from City P to City Q, which are 350 km apart. Study the graph and answer the following:



How far did the car go during 3rd hour?

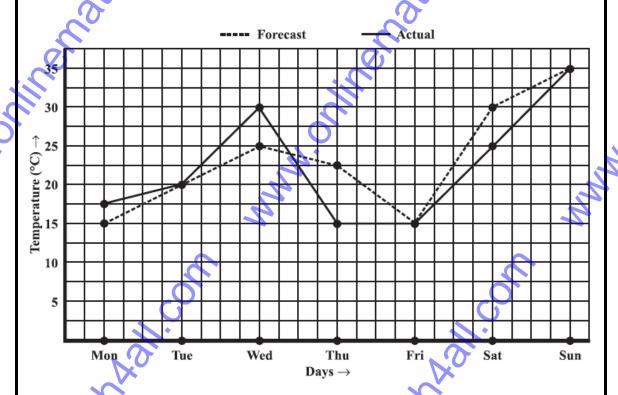
(a) 50 km

(c) 45 km

(b) 47 km

(d) 43 km

38. The following graph shows the temperature forecast and the actual temperature for each day of a week.



On which day did the actual temperature differ the most from the forecast temperature?

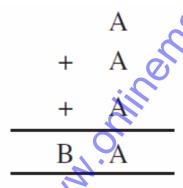
(a) Wednesday

A STANTALL OF THE STANTAL OF THE STA

(c) Sunday

(b) Tuesday

(d) Thursday



(a) A=1, B=3

(c) A=3, B=1

(b) A=5, B=1

(d) A=1, B=5

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

(a) 1

(c) 2

(b) 0

(d) 3

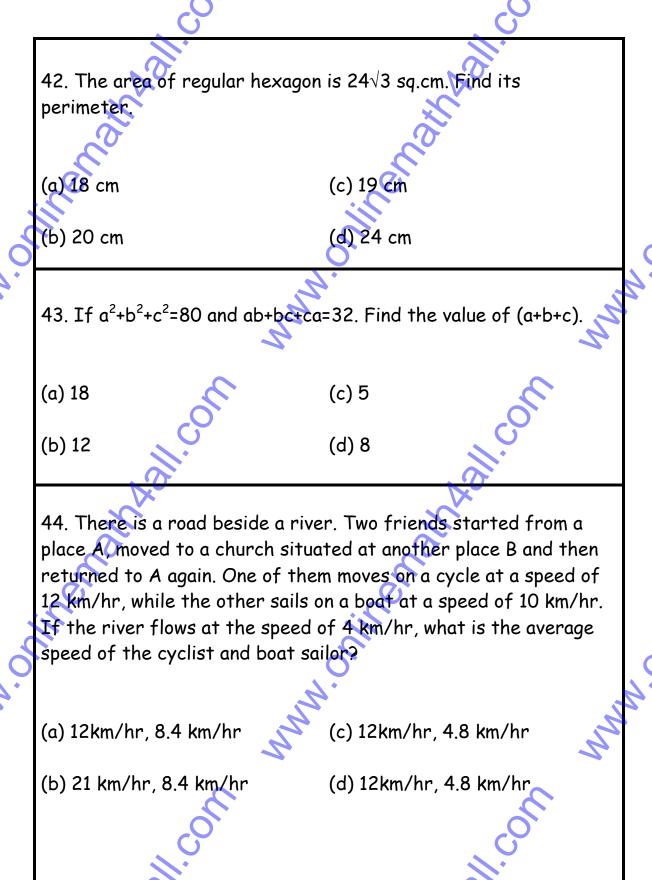
41. When water freezes its volume increases by 4%. What volume of water is required to make 221 cm³ of ice?

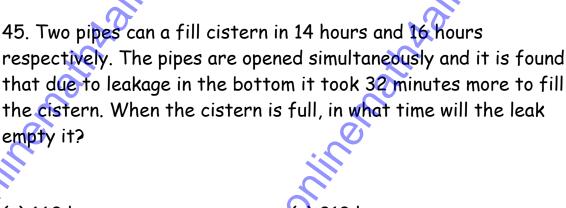
(a) (625/2) cm³

(c) (425/2) cm³

(b) (525/2) cm³

(d) (325/2) cm³





(a) 160 hours

(c) 210 hours

(b) 102 hours

(d) 232 hours

46. Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long should it take both A and B, working together but independently, to do the same job?

(a) 37/9 days

(c) 41/9 days

(b) 40/9 days

(d) 43/9 days

47. Alfred started a business investing \$45000. After three months, Peter joined him with a capital of \$60000. After another six months, Ronald joined them with a capital of \$90000. At the end of the year, they made a profit of \$16500. Find the share of Ronald.

(a) \$2200

(c) \$3300

(b) \$4400

(d) \$5500



(a) 36/

(c) 17/7

(b) 32/7

(d) 29/

49. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25

 $(a) (95/2)^{\circ}$

(c) (65/2)°

(b) (85/2)°

(d) (75/2)°

50. How many words can be formed by using all the letters of the word "DAUGHTER" so that the vowels always come together?

(a) 1040

304 (d) 4320 (c) 5040

(b) 2240

Signal Collins

	Answers	Vol			W Agil	•	
	1. d	2. a	3. c 9. c	4. d	5. b	6. c	The College of the Co
ANNA O	7. a	8. a	9. c	10. c	11. b	12. a	Och
MAN	13. c	14. b	15. d	16. b	17. d	18. a	
		20. b	21. a	22. c	23. a	24. d	
	25. b	20. b	27. α	28. d	29. b	30. c	
	31. d	32. a	33. b	34. d	3 5. b	36. b	
Muly O.	37. a	38. d	39. b	40. a	35. b 41. c 47. c	42. d	M. Cillon
NA	43. b	44. a	45. b	46. d	47. c	48. b	
	49. a	50. d				000	
		Vall.			- Coll		
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