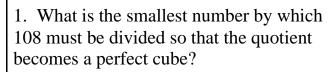
Subject - Maths

Grade - 8 (Set- A)



(a) 2

(b) 3

(c) 4

- (d) 7
- 2. If 56x 322 is divisible by 18, then the least value of x is
- (a) 2

(b) 4

(c) 0

- (d) 3
- 3. The largest four-digit number exactly divisible by each of 12, 15, 18 and 27 is
- (a) 9690

(b) 9720

(c) 9930

- (d) 9960
- 4. Let O and P represent the numbers 0 and # respectively on the number line. Points Q, R and S are between O and P such that OQ = QR = RS = SP. What are the rational numbers represented by the points Q, R and S respectively?
- (a)1/2, 3/2, 9/2
- (b) 3/4, 3/2, 9/4
- (c) 3/4, 9/4, 11/4
- (d) None of these
- 5. We get 47 as the remainder on dividing 342 by a number. If the same number is divided by 18, then what will be the remainder?
- (a) 5

(b) 7

(c)9

(d) 11

- 6. Number of pieces of ribbon each 13/4 m long that can be cut from a roll 39 m long are
- (a) 11

(b) 12

(c) 13

- (d) 14
- 7. Solve: 130.02 + 113.26 27.1 17.4
- (a) 180.78

(b) 178.78

(c) 286.78

- (d) 198.78
- 8. Value of $0.50 (0.2 \times 1.5)$ is
- (a) 0.20

(b) 0.10

(c) 0.22

- (d) 0.30
- 9. Which of the following fraction is improper?
- (a)1/6

(b) 3/6

(c)6/6

- (d) 9/10
- 10. A party of 10 people went to a hotel. They ordered a meal of Rs. 30.25 each, but 2 of them had forgotten to bring money. In order to settle the bill, how much more did the other 8 persons have to pay?
- (a) 7.5625

(b) 8.56

(c) 7.25

- (d) 8.82
- 11. Evaluate:

$$(3^2)^3 + (2/3)^0 + 3^5 \times (1/3)^4$$

(a) 15

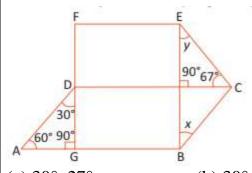
(b) 633

(c) 733

(d) 565

12. The missing exponen	t in the following	18. The maximum marks for an	
expression is: $10^5 \times 10^? = 10000000$		examination are 900. A student fails by 43 marks if he gets 33% of the maximum	
(a) 4	(b) 7	marks. What are the	
(c) 0	(d) 2	(a) 332	(b) 360
13. If $x = 2$ and $y = 4$, then(x) $y/x + (y) x/y$		(c) 340	(d) 375
=		19. Two numbers are such that 60% of one	
(a) 6	(b) 4	is equal to 40% of other and sum of	
(c) 3	(d) 1	numbers is 320. Find the larger number.	
14. Reciprocal of $(4/5)^0$ is		(a) 192 (c) 128	(b) 156 (d) 184
(a) 1	(b) 4/5		,
(c) 5/4	(d) 0	20. The points P, Q, R and S lie on a straight line. The ratio of the length of PQ	
15. Find the value of		to the length of QR is 3:4 and the ratio of	
$3^4[(2/3)^2+(2/3)-(2/3)^3]$		the length of PR to the length of RS is 2 : 1. Find the ratio of the length of QR to the	
(a) 86	(b) 66	length of PS.	
(c) 68	(d) 88	() 7 10	(1) 10 21
		(a) 7: 19	(b) 10 : 21
16. Find x if (39% of 640) + (x% of 590) = 414.8		(c) 21 : 8	(d) 8 : 21
		21. On dividing 6168 by a certain number,	
(a) 24	(b) 28	the quotient is 7 and the remainder is 1.	
(c) 31	(d) 32	Find the number.	
17. On a test containing 150 questions carrying 1 mark each, Mohan answered		(a) 881 (c) 991	(b) 885 (d) 500
80% of first 75 questions			0 1 0 11
percent of the other 75 questions does he		22. Write an equation for the following	
need to answer correctly to score 60% in the examination?		statement. In an isosceles triangle, the vertex angle is twice either base angle. (Let the base angle be b in degrees)	
(a) 50%	(b) 60%		
(c) 20%	(d) 40%	(a) $4b = 180$	(b) $2b + c = 180$
23. If $a - b = 5$ and $a^2 - b$	$p^2 = 65$, then find	(c) $2b + 2c = 180$	(d) None of the above

the value of $a^2 + b^2$ 28. Store A and Store B both charge Rs. 750 for a video game. This week the video game is on sale for Rs. 600 at store B and (a) 10 for 25 % off at store A. At which store (b) 47 is the game less expensive? (c) 85(d) 97(a) Store A (b) Store B 24. When a number is multiplied with 5 (c) Same at both stores times itself, it gives the value 1445. Find (d) Cannot be determined the number. 29. A man donated 5 % of his income to a (b) 15 (a) 18 (c) 19 (d) 17 charitable organisation and deposited 20 % of the remainder in a bank. Now, if he has Rs. 1919 left, what is his income? 25. The sum of three consecutive multiples of 7 is 1050. Find the numbers. (a) Rs. 2558.50 (b) Rs. 2525 (a) 343, 350, 357 (b) 340, 350, 360 (c) Rs. 2500 (c) 400, 600, 50 (d) 345, 349, 356 (d) Rs. 2300 26. Find the compound interest on Rs.6400 30. The CP of 25 articles is equal to the SP for 2 years, compounded annually at 7.5% of 20 articles. Then gain% is per annum. (a) Rs. 996 (b) Rs. 997 (a) 25% (c) Rs. 1001 (d) Rs. 1100 (b) 20% (c) 30% 27. The marked price of a heater is Rs.1250 (d) 50% and the shopkeeper allows a discount of 31. The perimeter of a rectangle whose one 6% on it. Find the selling price of the side measure 20m and the diagonal 29m is heater. (b) 78m (a) Rs. 1570 (b) Rs. 2342 (a) 82m (c) 98m (d) 88m (c) Rs. 1275 (d) Rs. 1175 32. In the given figure, ABCD is a parallelogram and GBEF is a rectangle. Find x and y respectively.



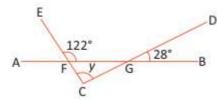
(a) 30° , 27°

(b) 30°, 23°

(c) 23° , 30°

(d) $30^{\circ}, 21^{\circ}$

33. In the given figure, AFGB, CFE and CGD are straight lines. Find y.

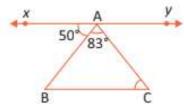


(a) 90°

(b) 86°

(c) 94° (d) 92°

34. In the given figure below XY \parallel BC. Which of the following options represents the measure of angle x?

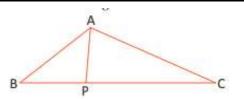


(a) 47° (c) 93° (b) 83°

(d) 112°

35. In the given figure P is the point on side BC. Which one of the following is correct?

40. A rectangular block 6 cm \times 12 cm \times 15



(a) (AB + BC + CA) < 2AP

(b) (AB + BC + CA) > 2AP

(c) (AB + BC + CA) < AP

(d) (AB + BC + CA) > AP

36. The length and breadth of a rectangular hall are 24m and 18m respectively. What is the length of the largest straight line that can be drawn on the floor of the hall?

(a) 24m

(b) 28m

(c) 30m

(d) 34m

37. A circular road runs around a circular garden. If the difference between the circumference of the outer circle and inner circle is 44 m, then the width of the road is

(a) 7 m

(b) 5 m

(c) 6.5 m

(d) 7.5 m

38. Each side of a cube is increased by 50%, then the surface area of the cube is increased by

(a) 50%

(b) 100%

(c) 125%

(d) 150%

39. A solid has forty faces and sixty edges. Find the number of vertices of the solid.

(a) 20

(b) 22

(c) 24

(d) 26

46. Which of the following is known as

cm is cut into exact number of equal cubes. p	1	
cm is cut mito exact number of equal cubes. p	pictorial representation of data using	
The least possible number of cubes will be s	symbols?	
(a) 6 (b) 11 (a	(a) Pictograph	
	(b) Bar graph	
	(c) Pie chart	
I .	(d) None of these	
1	(u) None of these	
of an isosceles triangle	47 The annual of the filter and the state of	
	47. The number of sets of data represented	
	by a double bar graph is	
(c) 2 (d) 3		
	(a) Four (b) Two	
42. For constructing a square, the minimum ((c) Three (d) Five	
number of measurements required is		
4	48. Each group in a grouped data, is known	
(a) 1 (b) 2 a	as	
(c) 3 (d) 4		
	(a) Class Interval	
	(b) Collection of data	
·	(c) Frequency	
	(d) Grouped frequency distribution	
	(d) Grouped frequency distribution	
· · ·	40. The difference between the upper limit	
	and lower limit of a class is called	
44. Which of the following given alphabets	() - -	
	(a) Frequency	
	(b) Class width	
	(c) Grouped data	
(c) J (d) A (c)	(d) Distribution	
45. Find out the group of alphabets that 5	50. A bag contains 5 red balls and some	
have both horizontal and vertical lines of b	blue balls. If the probability of drawing a	
symmetry. b	blue ball is double that of a red ball. The	
'	number of blue balls in the bag is	
(a) X, H, O (b) C, X, T	Ç	
	(a) 8 (b) 10	
	(c) 9 (d) 7	