

1. _____ is the only non-negative integer that is smaller than every positive integer. (a) 5 (b) 0 (c) 2 (d) 1 2. Smallest negative number: (a) -1 (b) -99999 (c) -9999999 (d) Does not exist 3. Which of the given operations on whole numbers, satisfy the commutative property? (a) $-$, $+$ (b) $-$, $\times$ (c) $+$, $\div$ (d) $+$, $\times$ 4. Which of the given statements is INCORRECT? (a) The multiplicative identity for integers is -1 (b) Subtraction does not obey associative property of integers. (c) Division of two integers with unlike signs gives negative result. (d) None of these 5. Every positive integer is _____ zero. (a) Less than (b) greater than (c) equal to (d) less than or equal to	6. An insect crawls up 5 cm every second on a 60 cm vertical rod and then falls down 2 cm over the next second. How many seconds will it take to climb the rod? (a) 10 (b) 20 (c) 30 (d) 40 7. $130.02 + 113.26 - 27.1 - 17.4$ (a) 180.78 (b) 178.78 (c) 286.78 (d) 198.78 8. A 5 kg bag of rice cost Rs. 8 per kg. Mr. Mohit bought Rs. 120 worth of rice. If he packed the rice into smaller packets each weighing $\frac{3}{5}$ kg, how many packets would he get? (a) 15 (b) 12 (c) 9 (d) 25 9. It takes 17 full specific type of trees to make one tonne of paper. If there are 221 such trees in a forest, then to save $\frac{7}{13}$ part of the forest, how much of paper we have to save? (a) 6 tonnes (b) 8 tonnes (c) 7 tonnes (d) 4 tonnes 10. When Sarvesh travelled 33 km he found that $\frac{2}{3}$rd of the entire journey was still left. The length of the total journey is: (a) 68 km (b) 132 km (c) 99 km (d) 100 km
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11. Which of the following statements is correct?

- (a) The reciprocal of a proper fraction is a proper fraction.
- (b) The product of two improper fractions is less than both the fractions.
- (c) To multiply a decimal number by 1000, we move the decimal in the number to the right by three places.
- (d) Product of two fractions
= Product of their denominators/ Product of their numerators

12. Find the value of 'm', such that $5m - 12 = -2$.

- (a) 2
- (b) -2
- (c) 3
- (d) 10

13. If $\frac{4}{5} = \frac{12}{x}$, what is the value of 'x'?

- (a) 5
- (b) 10
- (c) 15
- (d) 25

14. The sum of three times of x and 10 is 32. Which equation expresses the above statement correctly?

- (a) $3x - 10 = 32$
- (b) $3x + 32 = 10$
- (c) $3x + 10 = 32$
- (d) $3x - 32 = 10$

15. If 'x' is a rational number and 'a' and 'b' ($a > b$) are whole numbers, what is the value of $xa \div xb$?

- (a) $a + b$
- (b) $a - b$
- (c) a/b
- (d) $a \times b$

16. Thrice a number when increased by 6 gives 69. Find the number.

- (a) 12
- (b) 31
- (c) 33
- (d) 21

17. A student has to score 33% marks to pass. A student scored 250 marks and failed by 14 marks. Find the maximum marks.

- (a) 400
- (b) 700
- (c) 800
- (d) 750

18. Rita's watch was 10 minutes fast. Her watch showed 1:05 p.m. when she left home. She travelled for 35 minutes and arrived 5 minutes early for her dental appointment. At what time was her dental appointment?

- (a) 13:20 hrs
- (b) 13:25 hrs
- (c) 13:35 hrs
- (d) 13:55 hrs

19. Amit purchased 2 kg 200 g potatoes, 250 g rice, 5 kg 300 g wheat, 500 g apples and 2 kg 600 g tomatoes. Find the total weight of his purchases (in kilograms)

- (a) 25.75 kg
- (b) 18.65 kg
- (c) 20.85 kg
- (d) 15.95 kg

20. Express 36 seconds as a fraction of 2 minutes.

- (a) $\frac{5}{12}$
- (b) $\frac{3}{10}$
- (c) $\frac{1}{144}$
- (d) $\frac{1}{24}$

25. Two triangles are congruent, if two

21. A drum of kerosene oil has $\frac{3}{4}$ L. When 15 L of oil is drawn from it, it is now, $\frac{7}{12}$ L. The capacity of the drum is:

- (a) 45
- (b) 90
- (c) 60
- (d) Cannot be determined

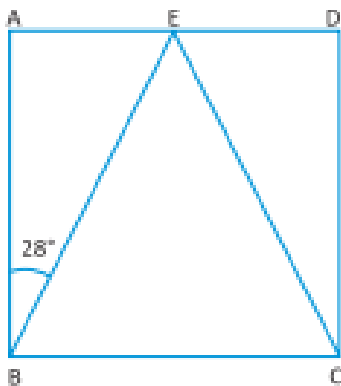
22. A solid silver piece is immersed in water contained in a measuring cylinder. The level of water rises from 50 ml to 62 ml. The volume of the silver piece is:

- (a) 62 ml
- (b) 12 ml
- (c) 50 ml
- (d) 102 ml

23. Convert 6g 7dg 9cg 2 mg into mg

- (a) 7692 mg
- (b) 6792 mg
- (c) 2976 mg
- (d) 2967 mg

24. In the given figure (not drawn to scale), ABCD is a square such that $AE = DE$. Find angle BEC.

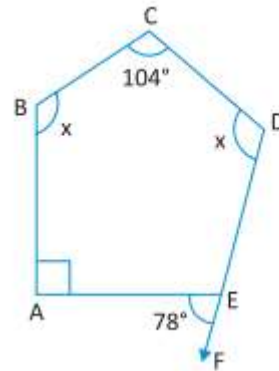


- (a) 28°
- (b) 56°
- (c) 62°
- (d) 24°

angles and the side included between them in one triangle is equal to the two angles and the side included between them of the other triangle. This is known as

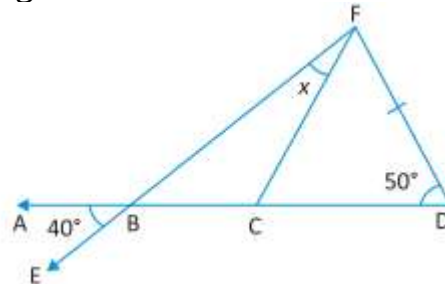
- (a) RHS congruence criterion
- (b) ASA congruence criterion
- (c) SAS congruence criterion
- (d) SSS congruence criterion

26. Find the unknown angle x in the given figures.



- (a) 104°
- (b) 122°
- (c) 132°
- (d) 120°

27. In the figure given below, ABCD is a straight line. Find x .



- (a) 25°
- (b) 35°
- (c) 45°
- (d) 55°

34. What is the total shaded area of the

28. The angles are supplementary and the larger angles is double of the smaller. Find the angles.

- (a) 110° , 70° (b) 60° , 120°
(c) 80° , 100° (d) 50° , 130°

29. If a regular polygon has n sides, then the number of symmetrical lines is

- (a) 2 (b) 4
(c) n (d) $n + 2$

30. How many lines of symmetry will you find in a scalene triangle?

- (a) 1 (b) 0
(c) 2 (d) 4

31. Choose the correct option in which a triangle cannot be constructed with the given length of sides.

- (a) 3cm, 4cm, 5cm (b) 7cm, 6cm, 5cm
(c) 10cm, 7cm, 2cm (d) 12cm, 8cm, 6cm

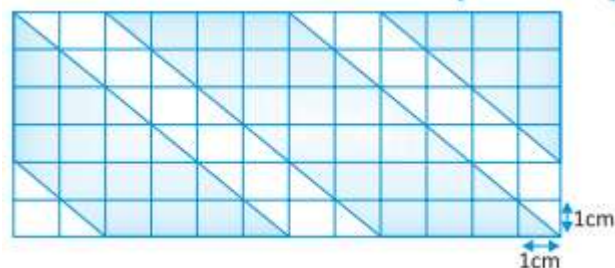
32. One of the acute angles of a right-angled triangle is 62° . The measure of other acute angle is.

- (a) 50° (b) 28°
(c) 36° (d) 48°

33. Lines which can never meet are called

- (a) Intersecting lines
(b) Perpendicular lines
(c) Parallel lines
(d) None of these

figure?



- (a) 47 sq. cm. (b) 48 sq. cm.
(c) 49 sq. cm. (d) 50 sq. cm.

35. The base of a triangular field is twice of its altitude. If the cost of watering the field at Rs. 15 per metre square is Rs. 735 then the measure of the base and height of the field are respectively:

- (a) 7 m and 14 m (b) 14 m and 7 m
(c) 6 m and 12 m (d) 12 m and 6 m

36. The lawn in front of Latika's house is $12 \text{ m} \times 8 \text{ m}$, whereas the lawn in front of Nisha's house is $15 \text{ m} \times 5 \text{ m}$. A bamboo fencing is built around both the lawns. How much fencing is required for both?

- (a) 40 m (b) 80 m
(c) 60 m (d) 90 m

37. A park, square in shape has 3 metre wide road inside it running along it sides. The area occupied by the road is 1764 square metres. What is the perimeter along the outer edge of the road?

- (a) 576 metres (b) 600 metres
(c) 670 metres (d) None of these

- (a) 20% (b) 40%

38. The total cost of flooring a room at Rs. 8.50 per sq. metre is Rs. 510. If the length of the room is 8 metres, find its breadth.

- (a) 7.4 m (b) 8.5 m
(c) 7.5 m (d) 5.8 m

39. The population of a city increases by 2% each year. In the year 2022, the population of the city is 1,04,040. What was the population of the city in the year 2020?

- (a) 1,00,000 (b) 99,100
(c) 1,01,000 (d) 1,01,010

40. The price of a product increases by 10% each year. In 2022, the price of the product is Rs. 242. What was the price of the product in the year 2020?

- (a) Rs. 150 (b) Rs. 200
(c) Rs. 180 (d) Rs. 175

41. Juhi sells a washing machine for Rs. 13,500. She loses 20% in the bargain. What was the price at which she bought it?

- (a) Rs. 16,875 (b) Rs. 17,945
(c) Rs. 18,459 (d) Rs. 20,000

42. In a school of 100 students, only 2 out of 5 students can participate in a quiz. What is the percentage of students that participated in the quiz?

- (c) 50% (d) 30%

43. Mathematics textbook for Class VII has 320 pages. The chapter 'Symmetry' runs from page 261 to page 272. The ratio of the number of pages of this chapter to the total number of pages of the book is

- (a) 11 : 320 (b) 3 : 40
(c) 3 : 80 (d) 272 : 320

44. If selling price of 10 notebooks is same as cost price of 5 notebooks, then find the loss %.

- (a) 20% (b) 30%
(c) 40% (d) 50%

45. The average of three numbers is 77. The first number is twice the second and the second number is twice the third. Then the first number is:

- (a) 33 (b) 66
(c) 77 (d) 132

46. In an examination, a candidate scores the following percentage of marks. English-44; Hindi-58; Maths-74; Physics-61; Chemistry-62. If weights 2, 4, 4, 5, 3 respectively are allotted to these subjects, then the candidate's weighted mean percentage is

- (a) 61 (b) 61.5
(c) 62 (d) 62.5

47. The average of the following observations arranged in ascending order is 24, find x .

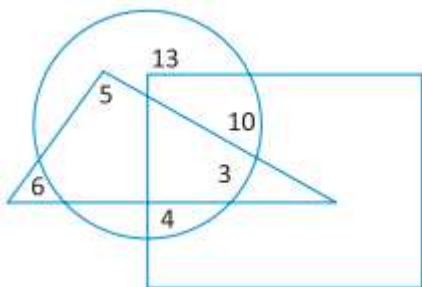
11, 12, 14, 18, $x + 2$, $x + 4$, 30, 32, 35 and 40.

- (a) 9 (b) 20
(c) 21 (d) 22

48. Find the average of the set of scores: 566, 455, 231, 678, 989, 342, 715.

- (a) 590 (b) 555
(c) 568 (d) 513

49. In the following diagram, square represents women, triangle represents teachers and circle represents graduates. Which number represents graduate women teachers?



- (a) 6 (b) 5
(c) 4 (d) 3

50. The mean of three numbers is 40. All the three numbers are different natural numbers. If lowest is 19, what could be highest possible number of remaining two numbers?

- (a) 81 (b) 40
(c) 100 (d) 71

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