

INTERNATIONAL TALENT SEARCH EXAMINATION

2024 – 2025 PRACTICE PAPER

Class – 6 (Mathematics)

Set – C

- (96 ÷ 12) + 14 (12 + 8) ÷ 2 is equal to

(A) 148 (B) 150
(C) 146 (D) 190
- If $4xy7$ is exactly divisible by 3, then the least value of $(x + y)$ is

(A) 1 (B) 4
(C) 5 (D) 7
- $P \div (Q \times R) = P \times (Q \div R)$. This statement is

(A) always true (B) always false
(C) may be true or false (D) none of these
- _____ – 1046 – 398 – 69 = 999

(A) 2502 (B) 2512
(C) 1868 (D) 1978
- Two supplementary angles differ by 44° . The greater angle is

(A) 68° (B) 102°
(C) 112° (D) 122°
- If the volume of a cube is 512 cm^3 , then the lateral surface area is

(A) 256 cm^2 (B) 250 cm^2
(C) 351 cm^2 (D) none of these
- If the angles of a Δ are in the ratio of 1 : 3 : 5. then what is value of the smallest angle?

(A) 20° (B) 60°
(C) 100° (D) 50°

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8. Which of the following has fractions in ascending order ?
- (A) $\frac{1}{3}, \frac{2}{5}, \frac{4}{7}, \frac{3}{5}, \frac{5}{6}, \frac{6}{7}$ (B) $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$
- (C) $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{5}{6}, \frac{4}{7}, \frac{6}{7}$ (D) $\frac{2}{5}, \frac{3}{5}, \frac{1}{3}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$
9. If $\frac{144}{0.144} = \frac{14.4}{x}$, then the value of x is
- (A) 0.0144 (B) 1.44
- (C) 14.4 (D) 144
10. Two numbers are in the ratio 3 : 5. If the sum of the numbers is 248, then numbers are
- (A) 63, 185 (B) 105, 143
- (C) 93, 155 (D) 81, 167
11. In a class of 15 students, the total marks obtained by all the students in a test is 600. Find the average marks of the class.
- (A) 35 (B) 30
- (C) 45 (D) 40
12. Which of the following expression is correct one for calculating the circumference of a circle?
- (A) $2\pi r$ (B) πd
- (C) Both (A) and (B) (D) none of these
13. The angle of rotation of rectangle is _____.
- (A) 45° (B) 90°
- (C) 180° (D) 360°
14. $6\frac{2}{3}$ of $7.26 \div 0.45$ of ? = $8\frac{32}{117}$
- (A) $\frac{1}{13}$ (B) 13

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- (C) $13\frac{1}{19}$ (D) none of these
15. If $x7y5$ is exactly divisible by 3, then the least value of $(x + y)$ is
(A) 6 (B) 0
(C) 4 (D) 3
16. Sunil purchased a pen of worth Rs. 59. If Anil purchased 99 such pen, then find the amount paid by Anil.
(A) 5941 (B) 5832
(C) 5841 (D) 5900
17. $(625 \div 25) \div 5$ is equal to:
(A) 5 (B) 25
(C) 50 (D) none of these
18. 50 is divided into two parts such that the sum of their reciprocals is $\frac{1}{12}$. Then smaller part is
(A) 20 (B) 15
(C) 18 (D) none of these
19. The curved surface area of a right circular cylinder of height 7 cm is 176 cm^2 . Find the diameter of the base of the cylinder.
(A) 8 cm (B) 4 cm
(C) 6 cm (D) 5 cm
20. If the angles of a Δ are in the ratio of 2 : 3 : 5 then the largest angle of the Δ is:
(A) 90° (B) 60°
(C) 100° (D) 120°
21. Which of the following fractions is the smallest ?
(A) $\frac{13}{16}$ (B) $\frac{15}{19}$

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- (C) $\frac{17}{21}$ (D) $\frac{7}{8}$
22. The least among the following is
- (A) 0.2 (B) $1 \div 0.2$
(C) 0.20 (D) $(0.2)^2$
23. If Rs 760 is divided between A and B in the ratio 8 : 11, then B's share is
- (A) Rs 440 (B) Rs 320
(C) Rs $552\frac{8}{11}$ (D) none of these
24. If the mean of 5, 7, x, 10, 5 and 7 is 7, then find the value of x.
- (A) 6 (B) 7
(C) 8 (D) 9
25. The circumference of a circle whose diameter is 7.7cm is equal to:
- (A) 24.2cm (B) 48.4cm
(C) 36.3cm (D) none of these
26. Which of the following shapes has only 2 lines of symmetry?
- (A) Rhombus (B) Isosceles Triangle
(C) Scalene Triangle (D) Circle
27. The unit digit in the difference of $(7^{95} - 3^{58})$ is equal to:
- (A) 0 (B) 4
(C) 6 (D) 7
28. If the 4-digit number x27y is exactly divisible by 9, then the least value of (x + y) is
- (A) 0 (B) 3
(C) 6 (D) 9
29. Amount given to every girl student is Rs. 17 and amount given to every boy student is Rs. 23. Find out of total amount given if number of boys and girls are 25 each.
- (A) 2000 (B) 980
(C) 940 (D) 1230

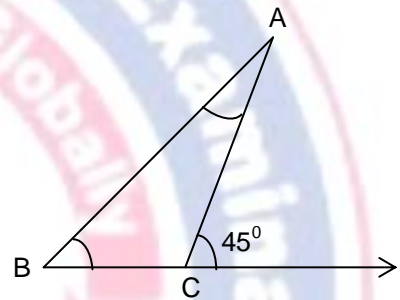
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30. $135 + (-196)$ is equal to:
- (A) -61 (B) $+61$
(C) 16 (D) -16
31. Present ages of X and Y are in the ratio $5 : 6$. If after seven years this ratio become $6 : 7$, then the present age of X is
- (A) 24 (B) 35
(C) 42 (D) 49
32. Three cubes each of side 10 cm are joined end to end. Find the volume of the resulting cuboid.
- (A) 3000 cm^3 (B) 3500 cm^3
(C) 4000 cm^3 (D) 4500 cm^3

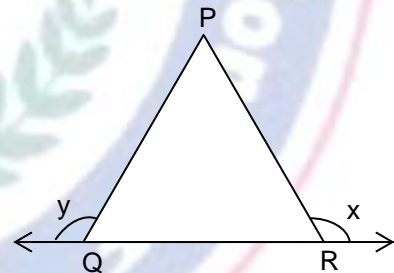
33. In the given figure $\angle A = \angle B$ then each angle is equal to

- (A) 45°
(B) 90°
(C) $22\frac{1}{2}^\circ$
(D) None



34. In the given figure $\angle x = \angle y$ then

- (A) $\angle P = \angle Q$
(B) $\angle P = \angle R$
(C) $\angle Q = \angle R$
(D) None of these



35. Which of the following fractions is the greater than $\frac{3}{4}$ and less than $\frac{5}{6}$?

- (A) $\frac{1}{2}$ (B) $\frac{2}{3}$
(C) $\frac{4}{5}$ (D) $\frac{9}{10}$

36. If $\frac{1}{6.198} = 0.16134$, then the value of $\frac{1}{0.0006198}$ is

- (A) 0.016134 (B) 0.16134

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(C) 1613.4

(D) 16134

37. Given $168 \times 32 = 5376$, then $5.376 \div 16.8$ is equal to

(A) 0.032

(B) 0.32

(C) 3.2

(D) none of these

38. The cost of 40 packets of 12 pens each is Rs 1680. The cost of 30 packets each containing 9 such pens is

(A) Rs 1260

(B) Rs 945

(C) Rs 1080

(D) Rs 1560

39. Find the mean weight (in kg) of 50 boys of a class whose total weight is 1550 kg.

(A) 30

(B) 35

(C) 32

(D) 31

40. The base and height of a triangle are 12m and 8m respectively. Its area is

(A) 96m^2

(B) 48m^2

(C) $16\sqrt{3}\text{m}^2$

(D) $16\sqrt{2}\text{m}^2$

41. The order of rotational symmetry of a square about its centre is_____.

(A) 4

(B) 5

(C) 6

(D) 2

42. Which of the following numbers does not lie between $\frac{4}{5}$ and $\frac{7}{13}$?

(A) $\frac{1}{2}$

(B) $\frac{2}{3}$

(C) $\frac{3}{4}$

(D) $\frac{5}{7}$

43. If 24 workers can build a wall in 15 days, how many days will 8 workers take to build a similar wall?

(A) 42 days

(B) 45 days

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(C) 48 days

(D) none of these

44. The mean of p , q & r is same as the mean of q , $2r$ and s , then which of the following is correct?

(A) $p = q = r$

(B) $q = r = s$

(C) $q = r$

(D) $p = r + s$

45. The perimeter of a square is 16cm then its area is:

(A) 16cm^2

(B) 64cm^2

(C) 32cm^2

(D) 24cm^2

