

CBSE Classes VI–VIII — Maths Basic Drills

PRACTICE PAPER

Exam: CBSE Classes VI–VIII Mathematics (NCERT)

Time: 40 minutes

Max. marks: 30

Questions: 30

NAME

ROLL NO. / DATE

Instructions

- 30 one-mark questions covering NCERT Classes VI–VIII: numbers, fractions, integers, algebra, geometry, mensuration and data.
- Do rough work in the margin. Target accuracy: 27/30.

A. NUMBERS, FRACTIONS & INTEGERS

- $\frac{3}{5} + \frac{1}{4} =$
(A) $\frac{4}{9}$ (B) $\frac{17}{20}$
(C) $\frac{7}{20}$ (D) $\frac{3}{20}$
- $\frac{2}{3} \times \frac{9}{10} =$
(A) $\frac{3}{5}$ (B) $\frac{18}{13}$
(C) $\frac{11}{13}$ (D) $\frac{6}{10}$
- $\frac{7}{8} \div \frac{7}{4} =$
(A) 2 (B) $\frac{1}{2}$
(C) $\frac{49}{32}$ (D) $\frac{1}{4}$
- $-8 + 15 - (-3) =$
(A) 4 (B) 10
(C) -10 (D) 26
- HCF of 36 and 60 is
(A) 6 (B) 12
(C) 18 (D) 180
- LCM of 36 and 60 is
(A) 120 (B) 360
(C) 180 (D) 720
- $2^3 \times 3^2 =$
(A) 36 (B) 54
(C) 72 (D) 216
- Which is a prime number?
(A) 51 (B) 57
(C) 59 (D) 91

9. The additive inverse of -13 is
 (A) 13 (B) -13
 (C) $1/13$ (D) 0
10. $4.6 \times 2.5 =$
 (A) 11.5 (B) 1.15
 (C) 115 (D) 10.5

B. ALGEBRA & RATIO

11. If $x = 7$, then $3x - 5 =$
 (A) 16 (B) 26
 (C) 21 (D) 2
12. Solve: $2y + 9 = 25$
 (A) $y = 8$ (B) $y = 17$
 (C) $y = 7$ (D) $y = 16$
13. Simplify: $5a + 3b - 2a + b$
 (A) $3a + 4b$ (B) $7a + 2b$
 (C) $3a + 2b$ (D) $8ab$
14. $(a + b)^2 =$
 (A) $a^2 + b^2$ (B) $a^2 + 2ab + b^2$
 (C) $a^2 - 2ab + b^2$ (D) $2a + 2b$
15. 45% of 360 =
 (A) 162 (B) 172
 (C) 144 (D) 180
16. Simple interest on ₹1260 at 5% p.a. for 1 year is
 (A) ₹6.30 (B) ₹63
 (C) ₹126 (D) ₹60
17. The ratio 25 : 40 in simplest form is
 (A) 5 : 8 (B) 5 : 4
 (C) 1 : 2 (D) 2 : 5
18. $3/4$ expressed as a percentage is
 (A) 34% (B) 43%
 (C) 75% (D) 80%
19. If 5 pens cost ₹60, then 8 pens cost
 (A) ₹80 (B) ₹96
 (C) ₹90 (D) ₹100
20. Value of $(-2)^4$ is
 (A) -16 (B) 16
 (C) -8 (D) 8

C. GEOMETRY, MENSURATION & DATA

21. Two angles are supplementary. One is 65° . The other is
(A) 25° (B) 115°
(C) 125° (D) 295°
22. In a triangle two angles are 50° and 60° . The third angle is
(A) 70° (B) 80°
(C) 90° (D) 110°
23. Area of a rectangle $14\text{ cm} \times 9\text{ cm}$ is
(A) 46 cm^2 (B) 126 cm^2
(C) 23 cm^2 (D) 116 cm^2
24. Circumference of a circle of radius 7 cm ($\pi = 22/7$) is
(A) 22 cm (B) 44 cm
(C) 154 cm (D) 49 cm
25. Area of a circle of radius 7 cm ($\pi = 22/7$) is
(A) 44 cm^2 (B) 154 cm^2
(C) 49 cm^2 (D) 22 cm^2
26. Volume of a cube of edge 4 cm is
(A) 16 cm^3 (B) 48 cm^3
(C) 64 cm^3 (D) 96 cm^3
27. The sum of interior angles of a quadrilateral is
(A) 180° (B) 270°
(C) 360° (D) 540°
28. The mean of 5, 7, 9, 11, 13 is
(A) 8 (B) 9
(C) 10 (D) 45
29. The median of 3, 8, 2, 9, 5 is
(A) 2 (B) 5
(C) 8 (D) 9
30. The mode of 4, 6, 4, 7, 6, 4 is
(A) 4 (B) 6
(C) 7 (D) 5

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