



## Grade 6 Math Practice — Grade 6 (Set 10)

Core Skills Edition | Curriculum-aligned worksheet

### Number Sense & Operations

*Work with ratios, percentages, and order of operations.*

1. What is 25% of 80?

- A) 15
- B) 20
- C) 25
- D) 40

2. Express 3:5 as a fraction.

- A)  $\frac{3}{5}$
- B)  $\frac{5}{3}$
- C)  $\frac{3}{8}$
- D)  $\frac{5}{8}$

3. Simplify the ratio 12:8.

- A) 6:4
- B) 3:2
- C) 4:3
- D) 2:3

4. Calculate:  $(8 + 4) \times 3 \div 6$

- A) 30
- B) 36
- C) 42
- D) 24

5. What is 0.75 as a percentage?

- A) 7.5%
- B) 25%
- C) 75%
- D) 0.75%



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6. A 27-player team has 3 left-handed players. What percentage are left-handed? Round to one decimal.

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**Fraction Operations***Add, subtract, multiply, and divide fractions.***7.** What is  $\frac{2}{3} + \frac{3}{4}$ ?

- A)  $\frac{5}{7}$
- B)  $\frac{17}{12}$
- C)  $\frac{5}{12}$
- D)  $\frac{6}{7}$

**8.** What is  $\frac{5}{6} \div \frac{1}{4}$ ?

- A)  $\frac{4}{2}$
- B)  $\frac{7}{12}$
- C)  $\frac{1}{2}$
- D)  $\frac{11}{12}$

**9.** What is  $\frac{3}{5} \times \frac{2}{3}$ ?

- A)  $\frac{6}{15}$
- B)  $\frac{2}{5}$
- C)  $\frac{5}{6}$
- D)  $\frac{1}{5}$

**10.** What is  $\frac{4}{5} \div 2$ ?

- A)  $\frac{8}{5}$
- B)  $\frac{2}{5}$
- C)  $\frac{4}{10}$
- D)  $\frac{2}{10}$

**11.** Express 0.375 as a fraction in lowest terms.

- A)  $\frac{375}{1000}$
- B)  $\frac{3}{8}$
- C)  $\frac{37}{100}$
- D)  $\frac{75}{200}$



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12. A recipe requires  $\frac{2}{3}$  cup flour. You want to make  $1\frac{1}{2}$  times the recipe. How much flour?

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**Geometry & Measurement***Use formulas for area. Understand coordinate grids.*

**13.** A triangle has base 12 cm and height 10 cm. Its area is:

- A) 120
- B) 60
- C) 22
- D) 240

**14.** A parallelogram has base 12 cm and height 3 cm. Its area is:

- A) 15
- B) 36
- C) 18
- D) 30

**15.** On a coordinate grid, what are the coordinates of a point 3 right and 5 up from the origin?

- A) (5, 3)
- B) (3, 5)
- C) (3, -5)
- D) (-3, 5)

**16.** A shape has vertices at (0,0), (4,0), (4,3), (0,3). What is the perimeter?

- A) 7
- B) 12
- C) 14
- D) 24

**17.** A trapezoid has parallel sides of 12 cm and 3 cm and a height of 10 cm. Find its area.

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### Patterning & Algebra

*Write and evaluate expressions. Solve equations.*

**18.** Solve:  $4n + 7 = 31$

- A)  $n = 5$
- B)  $n = 6$
- C)  $n = 7$
- D)  $n = 8$

**19.** Write '5 less than 3 times  $n$ ' as an expression.

- A)  $5 - 3n$
- B)  $3n - 5$
- C)  $3(n - 5)$
- D)  $5n - 3$

**20.** If  $x = 4$ , what is  $2x^2 + 3$ ?

- A) 35
- B) 19
- C) 11
- D) 67

**21.** The pattern rule is 'start at 2, add 4'. What is the 10th term?

- A) 34
- B) 38
- C) 42
- D) 30

**22.** A taxi charges \$3.50 base plus \$0.75/km. Write a formula for cost  $C$  after  $d$  km. Find cost for 12 km.

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### Data Management & Probability

*Interpret data, calculate measures of central tendency.*

**23.** Find the mean of 20, 10, 13, 20.

- A) 14
- B) 15
- C) 16
- D) 10

**24.** Find the median of 10, 13, 20, 20.

- A) 10
- B) 16.5
- C) 20
- D) 20

**25.** A bag has 4 red, 3 blue, 3 green marbles.  $P(\text{blue}) = ?$

- A)  $4/10$
- B)  $3/10$
- C)  $3/7$
- D)  $1/3$

**26.** A spinner has sections: 50% blue, 25% red, 25% green. Spin 40 times. About how many blue?

- A) 10
- B) 15
- C) 20
- D) 25

**27.** Scores: 20, 10, 13, 20, 20. Find mean, median, and mode.

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