



Grade 6 Math Practice — Grade 6 (Set 8) — Answer Key

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 [CORRECT]

C) 25

D) 40

2. Express 3:5 as a fraction.

A) $\frac{3}{5}$ [CORRECT]

B) $\frac{5}{3}$

C) $\frac{3}{8}$

D) $\frac{5}{8}$

3. Simplify the ratio 12:8.

A) 6:4

B) 3:2 [CORRECT]

C) 4:3

D) 2:3

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

A) 30 [CORRECT]

B) 36

C) 42

D) 24

5. What is 0.75 as a percentage?

A) 7.5%

B) 25%

C) 75% [CORRECT]

D) 0.75%



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6. A 29-player team has 3 left-handed players. What percentage are left-handed? Round to one decimal.

Answer: $(3/29) \times 100 = 10.3\%$.

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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) $\frac{17}{12}$ [CORRECT]

C) $\frac{5}{12}$

D) $\frac{6}{7}$

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

A) $\frac{4}{2}$

B) $\frac{7}{12}$ [CORRECT]

C) $\frac{1}{2}$

D) $\frac{11}{12}$

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

A) $\frac{6}{15}$

B) $\frac{2}{5}$ [CORRECT]

C) $\frac{5}{6}$

D) $\frac{1}{5}$

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

A) $\frac{8}{5}$

B) $\frac{2}{5}$ [CORRECT]

C) $\frac{4}{10}$

D) $\frac{2}{10}$

11. Express 0.375 as a fraction in lowest terms.

A) $\frac{375}{1000}$

B) $\frac{3}{8}$ [CORRECT]

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?

Answer: $\frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = 1$ cup of flour.

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Geometry & Measurement

Use formulas for area. Understand coordinate grids.

13. A triangle has base 10 cm and height 8 cm. Its area is:

A) 80

B) 40 [CORRECT]

C) 18

D) 160

14. A parallelogram has base 10 cm and height 9 cm. Its area is:

A) 19

B) 90 [CORRECT]

C) 45

D) 38

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) [CORRECT]

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 [CORRECT]

D) 24

17. A trapezoid has parallel sides of 10 cm and 9 cm and a height of 8 cm. Find its area.

Answer: Area = $((10 + 9) \times 8) \div 2 = 76 \text{ cm}^2$.



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Patterning & Algebra

Write and evaluate expressions. Solve equations.

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

A) $n = 5$

B) $n = 6$ [CORRECT]

C) $n = 7$

D) $n = 8$

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

A) $5 ? 3n$

B) $3n ? 5$ [CORRECT]

C) $3(n ? 5)$

D) $5n ? 3$

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

A) 35 [CORRECT]

B) 19

C) 11

D) 67

21. The pattern rule is 'start at 3, add 6'. What is the 10th term?

A) 51

B) 57 [CORRECT]

C) 63

D) 45

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.

Answer: $C = 3.50 + 0.75d$. For 12 km: $C = 3.50 + 9.00 = \$12.50$.



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Data Management & Probability

Interpret data, calculate measures of central tendency.

23. Find the mean of 10, 12, 13, 19.

A) 12

B) 13 [CORRECT]

C) 14

D) 12

24. Find the median of 10, 12, 13, 19.

A) 10

B) 12.5 [CORRECT]

C) 13

D) 19

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

A) $4/10$

B) $3/10$ [CORRECT]

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 [CORRECT]

D) 25

27. Scores: 10, 12, 13, 19, 10. Find mean, median, and mode.

Answer: Mean = $(64) \div 5 = 12.8$. Median = middle value when sorted. Mode = 10 (appears twice).



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