



Grade 7 Math Practice — Grade 7 (Set 8) — Answer Key

Core Skills Edition | Curriculum-aligned worksheet

Integers & Rational Numbers

Add, subtract, multiply, and divide integers.

1. Calculate: $(-3) + (10)$

A) 6

B) 7 [CORRECT]

C) 8

D) 9

2. Calculate: $(-3) \div (-2)$

A) -2

B) -1 [CORRECT]

C) 0

D) 1

3. Calculate: $(-3) \times (-2)$

A) 5

B) 6 [CORRECT]

C) 7

D) -6

4. Which is greater: ?3 or ?7?

A) ?7

B) ?3 [CORRECT]

C) Equal

D) Cannot compare

5. Order from least to greatest: 2, ?5, 0, ?1, 3

A) ?5, ?1, 0, 2, 3 [CORRECT]

B) 3, 2, 0, ?1, ?5

C) ?1, ?5, 0, 2, 3

D) 0, ?1, ?5, 2, 3



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6. At 6 AM it was -2°C . By 2 PM it rose 12°C . What was the temperature?

Answer: Answers depend on random values. Add the rise to the starting negative temperature.

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Proportional Reasoning

Use ratios and proportions to solve problems.

7. The ratio of cats to dogs is 3:5. There are 40 animals total. How many cats?

A) 12

B) 15 [CORRECT]

C) 18

D) 24

8. If 8 oranges cost \$35, what is the cost of 1 orange?

A) \$3.88

B) \$4.38 [CORRECT]

C) \$4.88

D) \$5.38

9. A map scale is 1 cm : 5 km. Two cities are 8 cm apart on the map. Actual distance?

A) 13 km

B) 40 km [CORRECT]

C) 45 km

D) 80 km

10. Solve: $x/4 = 7$

A) $x = 11$

B) $x = 28$ [CORRECT]

C) $x = 3$

D) $x = 1.75$

11. A recipe serves 4. You need to serve 10. The recipe calls for 2 cups flour. How much flour do you need?

Answer: $10/4 \times 2 = 5$ cups.



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Geometry

Area of composite shapes, angle relationships.

12. Two supplementary angles add to:

- A) 90°
- B) 180° [CORRECT]**
- C) 270°
- D) 360°

13. A circle has radius 6 cm. Its circumference is approximately: (use $\pi \approx 3.14$)

- A) 36
- B) 37.7 [CORRECT]**
- C) 40
- D) 113

14. The area of a circle with radius 6 cm is approximately:

- A) 108
- B) 113 [CORRECT]**
- C) 118
- D) 37.7

15. Angles on a straight line sum to:

- A) 90°
- B) 180° [CORRECT]**
- C) 270°
- D) 360°

16. An L-shaped room can be split into two rectangles: $8\text{m} \times 5\text{m}$ and $4\text{m} \times 3\text{m}$. Find the total area.

Answer: $8 \times 5 + 4 \times 3 = 40 + 12 = 52 \text{ m}^2$.



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Patterns & Equations

Write equations from patterns. Plot points.

17. A pattern starts at 5 and adds 3 each time. Write the rule.

A) $n + 5$

B) $3n + 2$ [CORRECT]

C) $3n + 5$

D) $5n + 3$

18. From the table: $x=1 \Rightarrow y=4$, $x=2 \Rightarrow y=7$, $x=3 \Rightarrow y=10$. Rule?

A) $y = 3x$

B) $y = 3x + 1$ [CORRECT]

C) $y = x + 3$

D) $y = 4x$

19. If $y = 2x + 3$, what is y when $x = 5$?

A) 3

B) 5

C) 7 [CORRECT]

D) 13

20. A line passes through (0, 4). What is the y-intercept?

A) 0

B) 4 [CORRECT]

C) 4

D) Unknown

21. Complete the table for $y = 3x + 1$: $x = 0, 1, 2, 3, 4$. Plot the points and describe the pattern.

Answer: $y: 1, 4, 7, 10, 13$. The points form a straight line rising by 3 for every 1 increase in x .



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Data & Probability

Calculate probability and interpret data displays.

22. Two dice are rolled. $P(\text{sum} = 7) = ?$

- A) $1/6$
- B) $1/12$
- C) $5/36$

D) $6/36$ [CORRECT]

23. A spinner has: 40% blue, 35% red, 25% green. In 200 spins, expected blue landings?

- A) 40
- B) 60

C) 80 [CORRECT]

- D) 100

24. The IQR of $\{3, 5, 7, 9, 11, 13, 15\}$ is:

- A) 4
- B) 6

C) 8 [CORRECT]

- D) 10

25. Which measure is most affected by outliers?

A) Mean [CORRECT]

- B) Median
- C) Mode
- D) Range

26. Explain the difference between experimental and theoretical probability with an example.

Answer: Answers vary. Look for: clear definition of fair/equal chance or distinction between calculated vs. observed probability, with a concrete example.



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