

**Grade 7 Math Practice — Grade 7 (Set 4)**Core Skills Edition | Curriculum-aligned worksheet

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**Integers & Rational Numbers***Add, subtract, multiply, and divide integers.***1.** Calculate:  $(-3) + (13)$ 

- A) 9
- B) 10
- C) 11
- D) 12

**2.** Calculate:  $(-3) \div (-6)$ 

- A) 2
- B) 3
- C) 4
- D) 5

**3.** Calculate:  $(-3) \times (-6)$ 

- A) 17
- B) 18
- C) 19
- D) -18

**4.** Which is greater:  $-3$  or  $-7$ ?

- A)  $-7$
- B)  $-3$
- C) Equal
- D) Cannot compare

**5.** Order from least to greatest: 2,  $-5$ , 0,  $-1$ , 3

- A)  $-5$ ,  $-1$ , 0, 2, 3
- 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  $78^{\circ}\text{C}$ . By 2 PM it rose  $8^{\circ}\text{C}$ . What was the 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
- C) 18
- D) 24

8. If 6 oranges cost \$27, what is the cost of 1 orange?

- A) \$4
- B) \$4.5
- C) \$5
- D) \$5.5

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
- C) 45 km
- D) 80 km

10. Solve:  $x/4 = 7$

- A)  $x = 11$
- B)  $x = 28$
- 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?

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### Geometry

*Area of composite shapes, angle relationships.*

**12.** Two supplementary angles add to:

- A)  $90^\circ$
- B)  $180^\circ$
- C)  $270^\circ$
- D)  $360^\circ$

**13.** A circle has radius 10 cm. Its circumference is approximately: (use  $\pi \approx 3.14$ )

- A) 61
- B) 62.8
- C) 65
- D) 314

**14.** The area of a circle with radius 10 cm is approximately:

- A) 309
- B) 314
- C) 319
- D) 62.8

**15.** Angles on a straight line sum to:

- A)  $90^\circ$
- B)  $180^\circ$
- C)  $270^\circ$
- D)  $360^\circ$

**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.

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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)  $3n + 2$
- 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)  $y = 3x + 1$
- C)  $y = x + 3$
- D)  $y = 4x$

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

- A) 3
- B) 5
- C) 7
- D) 13

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

- A) 0
- B) 4
- 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.

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### Data & Probability

*Calculate probability and interpret data displays.*

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

- A)  $\frac{1}{6}$
- B)  $\frac{1}{12}$
- C)  $\frac{5}{36}$
- D)  $\frac{6}{36}$

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

- A) 40
- B) 60
- C) 80
- D) 100

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

- A) 4
- B) 6
- C) 8
- D) 10

**25.** Which measure is most affected by outliers?

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

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

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