

# Grade 4 Measurement And Geometry Challenge Worksheet Set 009

Grade 4 · Measurement And Geometry · Challenge

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Convert measurement units and use angle, area, and perimeter relationships. Label every numerical answer with the requested unit.

1. Convert 20 liters to milliliters.

Answer: \_\_\_\_\_

2. Find the area of a rectangle 8 units long and 13 units wide.

Answer: \_\_\_\_\_

3. Find the perimeter of a rectangle 14 units long and 11 units wide.

Answer: \_\_\_\_\_

4. Classify an angle that measures  $68^\circ$  as acute, right, or obtuse.

Answer: \_\_\_\_\_

5. A rectangle has area 24 square units and one side is 3 units. Find the other side.

Answer: \_\_\_\_\_

6. A rectangle has perimeter 34 units and one side is 15 units. Find the other side.

Answer: \_\_\_\_\_

7. A right angle is split into angles of  $70^\circ$  and an unknown measure. Find the unknown measure.

Answer: \_\_\_\_\_

8. Two nonoverlapping rectangles have dimensions 12 by 2 units and 4 by 7 units. Find their total area.

Answer: \_\_\_\_\_

9. A rectangular garden is 22 m by 8 m. A 6 m gate needs no fence. How many meters of fence are needed?

Answer: \_\_\_\_\_

10. How many centimeters longer is 12 m than 920 cm?

Answer: \_\_\_\_\_

11. Convert 27 centimeters to millimeters.

Answer: \_\_\_\_\_

12. Find the area of a rectangle 4 units long and 12 units wide.

Answer: \_\_\_\_\_

13. Find the perimeter of a rectangle 9 units long and 5 units wide.

Answer: \_\_\_\_\_

14. Classify an angle that measures  $90^\circ$  as acute, right, or obtuse.

Answer: \_\_\_\_\_

15. A rectangle has area 54 square units and one side is 9 units. Find the other side.

Answer: \_\_\_\_\_

16. A rectangle has perimeter 34 units and one side is 10 units. Find the other side.

Answer: \_\_\_\_\_

17. A right angle is split into angles of  $17^\circ$  and an unknown measure. Find the unknown measure.

Answer: \_\_\_\_\_

18. Two nonoverlapping rectangles have dimensions 5 by 8 units and 5 by 3 units. Find their total area.

Answer: \_\_\_\_\_

19. A rectangular garden is 14 m by 13 m. A 3 m gate needs no fence. How many meters of fence are needed?

Answer: \_\_\_\_\_

20. How many centimeters longer is 4 m than 19 cm?

Answer: \_\_\_\_\_

21. Convert 14 hours to minutes.

Answer: \_\_\_\_\_

22. Find the area of a rectangle 14 units long and 14 units wide.

Answer: \_\_\_\_\_

23. Find the perimeter of a rectangle 15 units long and 2 units wide.

Answer: \_\_\_\_\_

24. Classify an angle that measures  $50^\circ$  as acute, right, or obtuse.

Answer: \_\_\_\_\_

# Answer Key

Answers for all 24 questions

|                      |                      |
|----------------------|----------------------|
| 1. 20000 milliliters | 2. 104 square units  |
| 3. 50 units          | 4. acute             |
| 5. 8 units           | 6. 2 units           |
| 7. $20^\circ$        | 8. 52 square units   |
| 9. 54 m              | 10. 280 cm           |
| 11. 270 millimeters  | 12. 48 square units  |
| 13. 28 units         | 14. right            |
| 15. 6 units          | 16. 7 units          |
| 17. $73^\circ$       | 18. 55 square units  |
| 19. 51 m             | 20. 381 cm           |
| 21. 840 minutes      | 22. 196 square units |
| 23. 34 units         | 24. acute            |