

Name \_\_\_\_\_

**Choose the best answer.**

1. Which metric unit would be used to measure the width of a television screen?

- a. centigram
- b. centimeter
- c. kilogram
- d. liter

6. The volume of a cube with an edge of 6 cm is equal to:

- a.  $12 \text{ cm}^3$
- b.  $18 \text{ cm}^3$
- c.  $216 \text{ cm}^3$
- d.  $36 \text{ cm}^3$

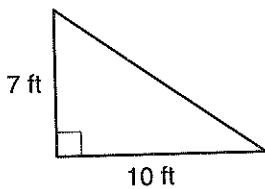
2. What is the prime factorization of 48?

- a.  $2 \times 2 \times 2 \times 6$
- b.  $6 \times 8$
- c.  $2 \times 2 \times 2 \times 2 \times 3$
- d.  $2 \times 48$

7. The total cost of 3 bottles of water is \$2.67. What is the total cost of 15 bottles?

- a. \$40.05
- b. \$13.20
- c. \$13.35
- d. \$12.95

3. Choose the area.



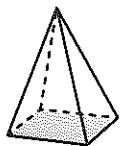
- a.  $70 \text{ ft}^2$
- b.  $35 \text{ ft}^2$
- c.  $17 \text{ ft}^2$
- d.  $40 \text{ ft}^2$

8. Add.

$$\begin{array}{r} 6 \text{ ft } 11 \text{ in.} \\ + 13 \text{ ft } 8 \text{ in.} \\ \hline \end{array}$$

- a. 20 ft 7 in.
- b. 20 ft 19 in.
- c. 19 ft 7 in.
- d. 21 ft 7 in.

4. How many faces does a rectangular pyramid have?



- a. 4
- b. 6
- c. 8
- d. not given

9. Which statement is true?

- a.  $+4 \times -3 = +3 \times +2$
- b.  $-6 - -1 = -1 - -6$
- c.  $+7 + -12 = -4 + -1$
- d.  $-5 \div -1 = +8 \div +8$

5. Pat started to clean at 10:30 A.M. and finished at 3:00 P.M. What is the total number of hours Pat spent cleaning?

- a.  $4\frac{1}{2} \text{ h}$
- b. 4 h
- c.  $5\frac{1}{2} \text{ h}$
- d. 5 h

10. One letter is chosen at random from the word SUCCESS. What is the probability that the letter is an S?

- a.  $\frac{1}{2}$
- b.  $\frac{3}{7}$
- c.  $\frac{3}{4}$
- d.  $\frac{2}{7}$

**Choose the best answer.**

**11.** Which decimal has the least value?

- a. 0.77
- b. 0.85
- c. 0.552
- d. 0.539

**16.** Lynn's test scores are 80, 85, 95, 90 and 85. Choose Lynn's mean score.

- a. 87
- b. 70
- c. 85
- d. 95

**12.** What is 25% in fraction form?

- a.  $\frac{1}{2}$
- b.  $\frac{1}{4}$
- c.  $\frac{2}{3}$
- d.  $\frac{2}{5}$

**17.** Which is equivalent to 4.23 km?

- a. 423 m
- b. 42.3 m
- c. 4230 m
- d. 0.423 m

**13.** Sal bought a DVD player on sale for 35% off the regular price of \$179. How much did Sal pay for the DVD player?

- a. \$62.65
- b. \$116.45
- c. \$116.35
- d. \$144.00

**18.** Soccer camp has 560 members. There are 260 boys and 300 girls. What is the ratio of girls to boys?

- a. 260 : 560
- b. 300 : 560
- c. 13 : 15
- d. 15 : 13

**14.** Which shows 4 billion in expanded form?

- a.  $4 \times 100,000,000$
- b.  $4 \times 1,000,000,000$
- c.  $4 \times 10,000,000,000$
- d.  $4 \times 1,000,000$

**19.** Choose the number that makes the equation true.

$$(8 \times 9) \div ? = 8$$

- a. 8
- b. 72
- c. 9
- d. 7

**15.** What is the distance, in miles, between two cities that are  $4\frac{1}{2}$  in. apart on a map drawn to the scale  $\frac{1}{2}$  in. = 300 mi?

- a. 2700 mi
- b. 2400 mi
- c. 450 mi
- d. not given

**20.** A certain ferry has a capacity of 60 people. What is the least number of trips the ferry must make to carry a total of 335 people?

- a. 6 trips
- b. 5 trips
- c. 395 trips
- d. 275 trips

Choose the best answer.

21. Lee paid a sales tax of 8% on a CD priced at \$13.50. How much sales tax did Lee pay?

- a. \$12.42
- b. \$1.08
- c. \$.08
- d. \$14.58

26. Choose the missing term.

$$\frac{5}{8} = \frac{35}{n}$$

- a.  $n = 48$
- b.  $n = 56$
- c.  $n = 64$
- d.  $n = 40$

22. Round 5.675 to the nearest hundredth.

- a. 0.568
- b. 5.67
- c. 5.68
- d. 5.7

27. Choose the quotient.

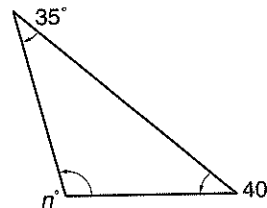
$$n \div 7 \text{ when } n = 0.091$$

- a. 6.909
- b. 0.013
- c. 0.637
- d. not given

23. The perimeter of a square is 16 inches. What is the length of one side of the square?

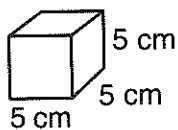
- a. 2 in.
- b. 4 in.
- c. 6 in.
- d. 8 in.

28. Choose the measure of the third angle.



- a.  $75^\circ$
- b.  $115^\circ$
- c.  $110^\circ$
- d.  $105^\circ$

24. Choose the surface area.



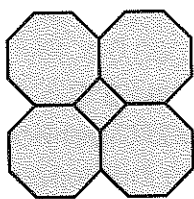
- a.  $150 \text{ cm}^2$
- b.  $125 \text{ cm}^2$
- c.  $25 \text{ cm}^2$
- d.  $15 \text{ cm}^2$

29. Compare.

$$4\frac{7}{8} \text{ ? } 4\frac{5}{6}$$

- a.  $>$
- b.  $<$
- c.  $=$

25. Choose the polygons used in the tessellation.



- a. pentagons, rhombus
- b. octagons, trapezoid
- c. hexagons, rhombus
- d. octagons, rhombus

30. Compute. Use the order of operations.

$$132 - n \div 4 \times 2, \text{ when } n = 12$$

- a. 60
- b. 126
- c. 15
- d. not given

Choose the best answer.

31.  $7\frac{2}{4} + \frac{3}{8} + 6\frac{9}{32}$

- a.  $13\frac{5}{32}$
- b.  $14\frac{5}{32}$
- c.  $14\frac{1}{4}$
- d. 14

36. What type of graph best compares intervals of data?

- a. line graph
- b. pictograph
- c. circle graph
- d. histogram

32. Rename.

26 qt = ?

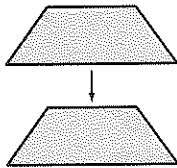
- a. 52 pt
- b. 13 c
- c.  $6\frac{1}{2}$  gal
- d. 6 gal

37. Estimate by rounding.

$31.08 + 7.96$

- a. 39
- b. 48
- c. 22
- d. 23.1

33. Name the transformation shown.



- a. translation
- b. reflection
- c. rotation

38. The diameter of a circle is 6 in. What is the circumference of the circle? Use 3.14 for  $\pi$ .

- a. 9.14 in.
- b. 37.68 in.
- c. 19.84 in.
- d. not given

34. Choose the quotient.

$2\frac{4}{9} \div 1\frac{5}{6}$

- a.  $1\frac{1}{3}$
- b.  $1\frac{1}{4}$
- c. 2
- d. not given

39. Choose the quotient.

$+52 \div -4$

- a. -12
- b. +12
- c. -13
- d. +13

35. Choose the volume of a rectangular prism with a length of 4 m, width of 0.5 m, and height of 6 m.

- a.  $10.5 \text{ m}^3$
- b.  $12 \text{ m}^3$
- c.  $120 \text{ m}^3$
- d. not given

40. **Tell About It**

**Solve. Explain how you solved the problem.**

At noon the temperature was  $8^\circ\text{C}$ . The temperature dropped  $2^\circ\text{C}$  per hour. What was the total change in temperature in 6 hours?