



Name:

Date:

1. A number has an 8 in the hundredths place. The number also contains a digit whose value is $\frac{1}{10}$ the value of the 8 in the hundredths place. Which could be the expanded form of the number?

- A. $(1 \times 100) + (8 \times 0.1) + (8 \times 0.01) + (2 \times 0.001)$
- B. $(3 \times 100) + (8 \times 10) + (2 \times 1) + (2 \times 0.1) + (8 \times 0.01) + (7 \times 0.001)$
- C. $(8 \times 100) + (8 \times 10) + (1 \times 0.1) + (7 \times 0.01) + (9 \times 0.001)$
- D. $(2 \times 100) + (7 \times 10) + (2 \times 1) + (8 \times 0.01) + (8 \times 0.001)$

2. The workers in a bakery use 0.35 kilogram of flour to make one loaf of bread. One day, the workers used 10^3 times as much flour to make loaves of bread as they use to make one loaf of bread. How much flour, in kilograms, did the workers use to make loaves of bread that day?

- A. 3.5
- B. 35
- C. 350
- D. 3,500

3. The amount of time, in seconds, it took Martin to finish a race is written below in expanded form.

$$(5 \times 10) + (9 \times 1) + (4 \times 0.1) + (5 \times 0.001)$$

Rounded to the nearest hundredth, how many seconds did it take Martin to finish the race?

- A. 59.4
- B. 59.405
- C. 59.41
- D. 59.45

4. The table below shows four mineral samples and the mass of each sample.

Mineral	Mass (grams)
albite	3.012
graphite	3.07
magnetite	3.061
quartz	3.05

Which number sentence correctly compares the masses, in grams, of two of the mineral samples?

- A. $3.05 < 3.061$
- B. $3.05 < 3.012$
- C. $3.012 > 3.07$
- D. $3.012 > 3.061$

5. The distance between Glendale and Greenhaven is 28.655 kilometers. Rounded to the nearest tenth of a kilometer, what is the distance between Glendale and Greenhaven?

- A. 28.6
- B. 28.7
- C. 28.65
- D. 28.66

6. Multiply: 640×390

- A. 249,600
- B. 293,600
- C. 540,000
- D. 768,000

7. Deirdre's sister works as a lifeguard. Last summer, she earned \$14 per hour. She earned a total of \$5,180 working as a lifeguard last summer. How many hours did Deirdre's sister work as a lifeguard last summer?

- A. 27
- B. 37
- C. 270
- D. 370

8. Jerry has 56.92 centimeters (cm) of wire. He uses 2 pieces of the wire. Each piece he uses is 7.37 cm long. What is the length of the remaining wire, rounded to the nearest tenth of a centimeter?

- A. 7.7 cm
- B. 42.2 cm
- C. 49.6 cm
- D. 71.7 cm

9. Nora hiked $8\frac{1}{3}$ miles on Monday and $5\frac{3}{4}$ miles on Tuesday. What was the total number of miles Nora hiked on Monday and Tuesday?

- A. $13\frac{1}{12}$
- B. $13\frac{4}{7}$
- C. $14\frac{1}{12}$
- D. $14\frac{1}{4}$

10. Anthony brings 4 bags of popcorn to a meeting. The bags of popcorn are all the same size. There are 14 people at the meeting. Each person eats the same amount of popcorn, and all of the popcorn is eaten. What fraction of a bag of popcorn did each person eat?

- A. $\frac{2}{5}$
- B. $\frac{2}{7}$
- C. $\frac{5}{7}$
- D. $\frac{7}{2}$

11. A house painter is painting a wall. He will apply 4 coats of paint to the wall. He uses $1\frac{3}{4}$ gallons of paint for the first coat. For each additional coat, he uses $\frac{1}{2}$ as much paint as he used for the first coat. How many gallons of paint does the house painter use in all?

- A. $2\frac{5}{8}$
- B. $4\frac{3}{8}$
- C. $5\frac{1}{4}$
- D. $5\frac{5}{8}$

12. Travis and Yvette each collect trading cards. Travis has 24 boxes that each have 60 trading cards inside. Yvette has 6 boxes that each have 60 trading cards inside. The expressions below show how many trading cards Travis and Yvette each have.

$$\text{Travis: } 24 \times 60$$

$$\text{Yvette: } 6 \times 60$$

How many times more trading cards does Travis have than Yvette?

- A. 4
- B. 18
- C. 30
- D. 60

13. Robin has $\frac{1}{8}$ gallon of milk. She gives an equal amount of the milk to each of her 3 cats. How much milk, in gallons, does Robin give to each cat?

- A. $\frac{1}{24}$
- B. $\frac{1}{3}$
- C. $\frac{3}{8}$
- D. 24

14. An expression is shown below.

$$4\{6 + [9(4 + 1) - 4]\}$$

Which phrase **best** describes the first two steps needed to correctly evaluate the expression?

- A. add 4 and 1, then subtract 4
- B. add 4 and 1, then multiply by 9
- C. multiply 4 and 6, then add 9
- D. multiply 4 and 9, then add 1

15. The number of marbles in a jar is 4 times the difference between 17 and 12. Which expression can be used to find the number of marbles in the jar?

- A. $4 \times (17 - 12)$
- B. $(17 - 12) + 4$
- C. $4 \times 17 - 12$
- D. $17 \times 12 - 4$

16. Daniel and Jessica each make a pattern.

- Daniel's pattern starts with 12 and uses the rule subtract 6, then multiply by 3.
- Jessica's pattern starts with 8 and uses the rule multiply by 2, then add 2.

Which pair of patterns shows Daniel's and Jessica's patterns?

A. Daniel's pattern: 12, 18, 36, 90, 252

Jessica's pattern: 8, 20, 44, 92, 188

B. Daniel's pattern: 12, 36, 108, 324, 972

Jessica's pattern: 8, 16, 32, 64, 128

C. Daniel's pattern: 12, 18, 36, 90, 252

Jessica's pattern: 8, 18, 38, 78, 158

D. Daniel's pattern: 12, 30, 84, 246, 732

Jessica's pattern: 8, 18, 38, 78, 158

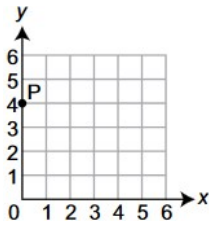
17. Asad writes the number pattern shown below.

5, 9, 13, 17, 21, ...

Asad's pattern continues. Whitney also writes a number pattern. Her pattern has the same starting number as Asad's pattern and uses an addition rule. The first number that both patterns have in common after the starting number is the number 17. Which rule could be the rule for Whitney's pattern?

- A. add 2
- B. add 4
- C. add 6
- D. add 8

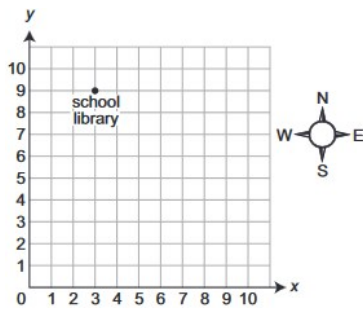
18. Point P is shown on the coordinate grid below.



Which statement about point P is true?

- A. Point P is on the x -axis and has an x -coordinate of 0.
- B. Point P is on the x -axis and has a y -coordinate of 0.
- C. Point P is on the y -axis and has an x -coordinate of 0.
- D. Point P is on the y -axis and has a y -coordinate of 0.

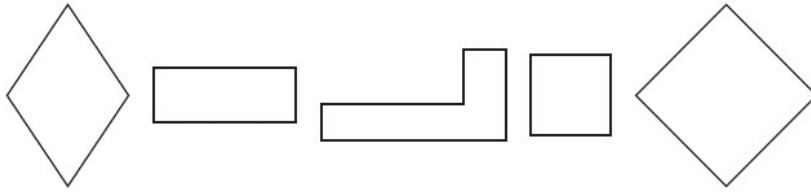
19. The coordinate grid below shows the location of a school library.



The school office is located at the origin of the coordinate grid. Which describes a path that could be followed to walk from the school library to the school office?

- A. walk 2 units north, then 3 units west
- B. walk 3 units west, then 9 units south
- C. walk 8 units east, then 2 units north
- D. walk 9 units north, then 3 units east

20. An art student made the five stencils shown below.



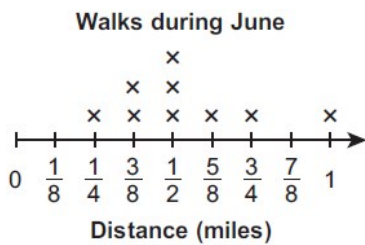
How many of the stencils are rectangles?

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

21. Sonia saw a school play that was 2.15 **hours** long. How many **minutes** long was the play?

- A. 27.90 minutes
- B. 62.15 minutes
- C. 120.15 minutes
- D. 129.00 minutes

22. Chip recorded the distances of the walks he took during the month of June. He put the data in a line plot as shown below.



What is the total distance, in miles, of the walks Chip took during the month of June?

- A. $1\frac{1}{2}$
- B. $3\frac{1}{2}$
- C. $4\frac{1}{2}$
- D. $4\frac{7}{8}$

23. The table below shows the monthly average high temperatures, in degrees Fahrenheit ($^{\circ}\text{F}$), in Levi's hometown last year.

Temperatures in Levi's Hometown

Month	Average High Temperature ($^{\circ}\text{F}$)
January	24
February	29
March	42
April	58
May	69
June	79
July	83
August	80
September	72
October	58
November	41
December	27

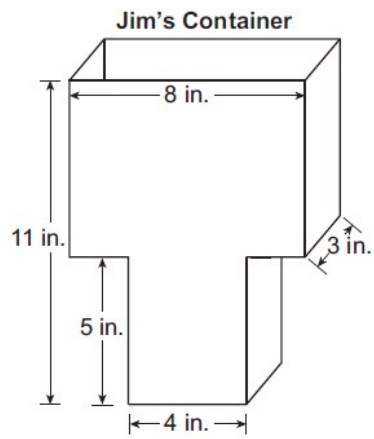
Based on the information in the table, which statement about the monthly average high temperatures in Levi's hometown last year is true?

- A. There are no months in which the average high temperatures are the same.
- B. The greatest difference in average high temperatures between two consecutive months occurs between March and April.
- C. There are more months with average high temperatures greater than 70°F than there are months with average high temperatures less than 40°F .
- D. The difference between the average high temperatures in May and September is greater than the difference between the average high temperatures in July and August.

24. A wooden crate is in the shape of a rectangular prism. The area of the base of the crate is 264 square inches. The height of the crate is 36 inches. What is the volume, in cubic inches, of the wooden crate?

- A. 2,376
- B. 7,084
- C. 8,404
- D. 9,504

25. Jim wants to plant flowers in the container shown below.



What is the **greatest** volume, in cubic inches, of dirt that will fit into Jim's container?

- A. 204
- B. 234
- C. 264
- D. 324