

## 2022-2023 Item and Scoring Samplers

<https://www.education.pa.gov/Documents/K-12/Assessment%20and%20Accountability/PSSA/Item%20and%20Scoring%20Samples/2022%20PSSA%20ISS%20Math%20Grade%203.pdf>

### PSSA MATHEMATICS GRADE 3

#### MULTIPLE-CHOICE ITEMS

1. The Liberty Bell weighs 2,080 pounds.

What is the value of the 8 in 2,080?

- (A) 8 ones
- (B) 8 tens
- (C) 8 hundreds
- (D) 8 thousands

2. A number sentence is shown below.

$$35 < 42$$

Which statement would require the symbol to change?

- (A) Add 150 to each number.
- (B) Divide each number by 7.
- (C) Subtract 10 from each number.
- (D) Round each number to the nearest 10.

3. Four numbers are shown below.

1,991    1,199    1,919    1,999

Which list shows the numbers in order from **greatest to least**?

- (A) 1,999    1,991    1,199    1,919
- (B) 1,991    1,999    1,919    1,199
- (C) 1,999    1,991    1,919    1,199
- (D) 1,999    1,919    1,991    1,199

4. Gary pours all his milk into 4 glasses.

He fills each glass with 6 ounces of milk.

Sara has the same amount of milk as Gary has.

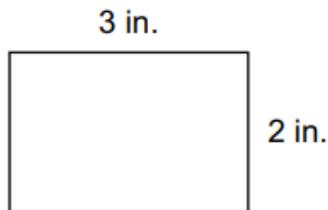
She also has the same number of glasses as Gary has.

She pours the same amount of milk into each of her glasses as Gary pours into each of his glasses.

Which statement is true?

- Ⓐ Sara pours a total of 24 ounces of milk into 4 glasses.
  - Ⓑ Sara pours a total of 24 ounces of milk into 6 glasses.
  - Ⓒ Sara pours a total of 10 ounces of milk into 4 glasses.
  - Ⓓ Sara pours a total of 10 ounces of milk into 6 glasses.
5. Corey made a design using rectangles that are all the same size.

One of the rectangles is shown below.



Corey's design has a total area of 48 square inches.

How many rectangles are in Corey's design?

- Ⓐ 6
- Ⓑ 8
- Ⓒ 12
- Ⓓ 42

6. Emma buys 7 packages of toy rings.

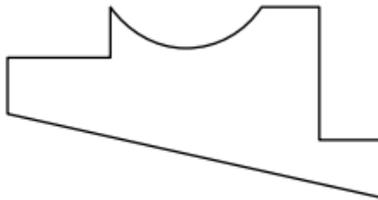
Each package contains 2 bags with 5 rings in each.

Emma uses the expression  $(7 \times 2) \times 5$  to find the total number of rings.

Which expression shows another way to find the total number of rings?

- Ⓐ  $(7 + 2) \times 5$
- Ⓑ  $(7 \times 2) + 5$
- Ⓒ  $7 \times (2 \times 5)$
- Ⓓ  $7 \times (5 \times 10)$

7. A shape is shown below.



Which statement **best** explains whether the shape is a polygon?

- Ⓐ Because it has many sides, the shape is a polygon.
- Ⓑ Because one side is curved, the shape is not a polygon.
- Ⓒ Because it has an inside and an outside, the shape is a polygon.
- Ⓓ Because the sides have different lengths, the shape is not a polygon.

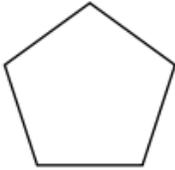
8. Keenan makes a cardboard polygon.

Then he cuts it straight from one corner to another corner.

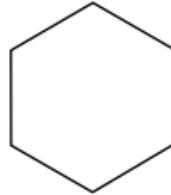
The result is two trapezoids.

Which polygon could be Keenan's original polygon?

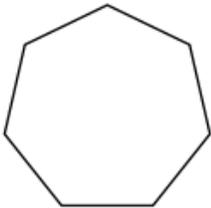
(A)



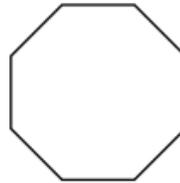
(B)



(C)



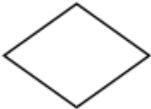
(D)



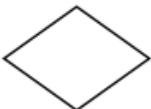
9. Paula makes a quilt using only quadrilateral shapes.

Which group of shapes could Paula use to make her quilt?

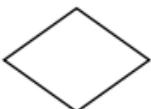
(A)



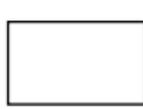
(B)



(C)



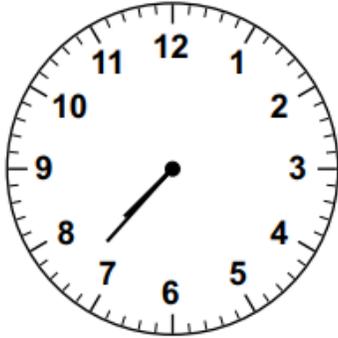
(D)



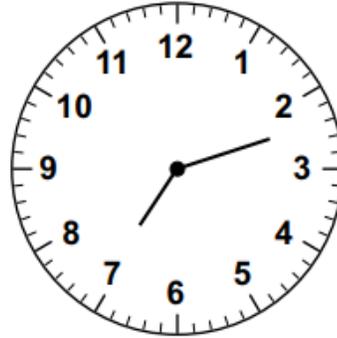
10. The television weather report begins at 7:23 each day.

Which clock shows the time when the weather report begins?

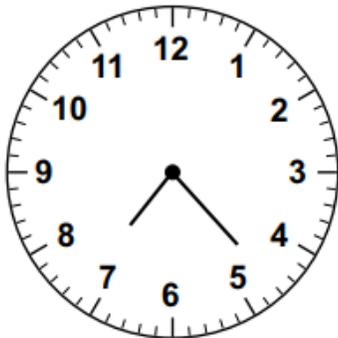
(A)



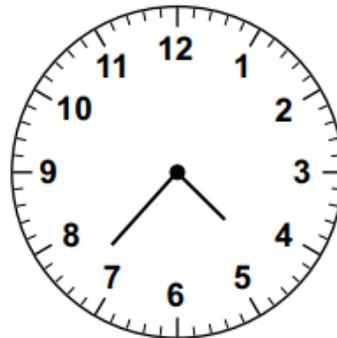
(B)



(C)



(D)



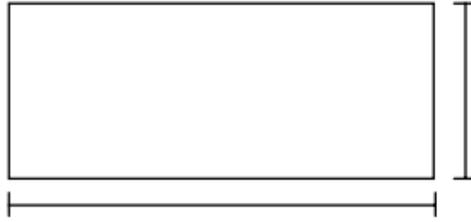
11. Arianna used 16 gallons of water taking a shower.

The shower lasted for 8 minutes.

How many gallons of water were used each minute?

- (A) 2
- (B) 4
- (C) 8
- (D) 24

12. A rectangle is shown below.

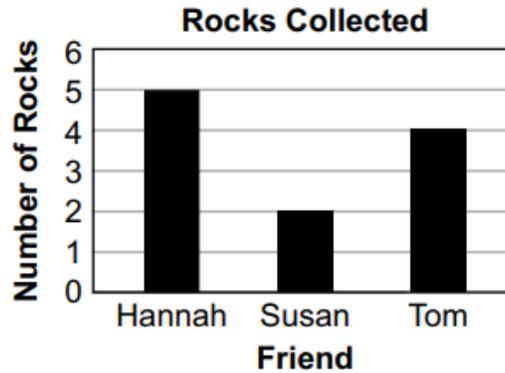


Use your ruler to measure the lengths of the sides of the rectangle to the nearest centimeter.

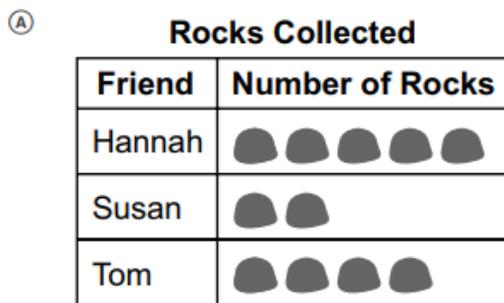
Which measurement is **closest** to the area, in square centimeters, of the rectangle?

- Ⓐ 12
  - Ⓑ 14
  - Ⓒ 18
  - Ⓓ 21
13. Cordelia and Reanna have different amounts of money.
- When rounded to the nearest dollar, the amount they each have rounds to \$4.
- Which amounts of money could Cordelia and Reanna each have?
- Ⓐ \$3.49 and \$4.49
  - Ⓑ \$3.49 and \$4.50
  - Ⓒ \$3.50 and \$4.50
  - Ⓓ \$3.50 and \$4.49

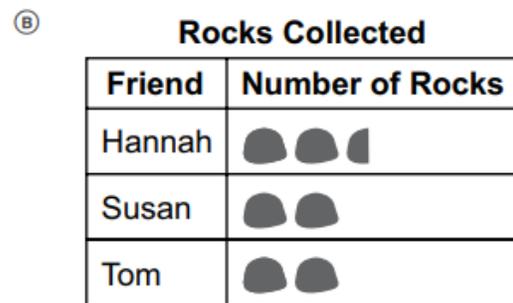
14. The bar graph below shows the numbers of rocks collected by three friends at a lake.



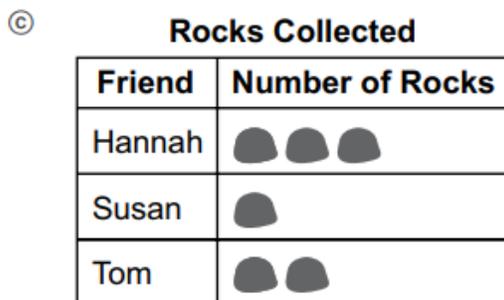
Which pictograph shows the same information as the bar graph?



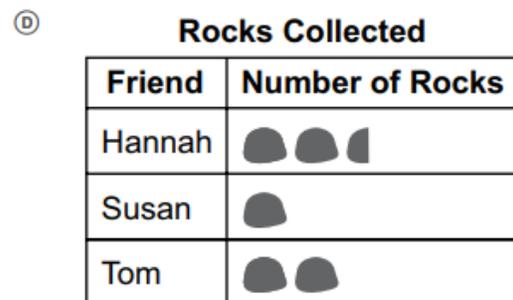
Key:  = 2 rocks



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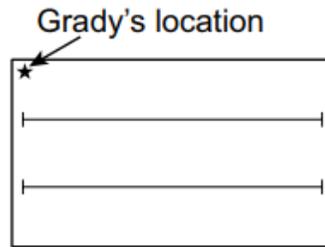


Key:  = 2 rocks



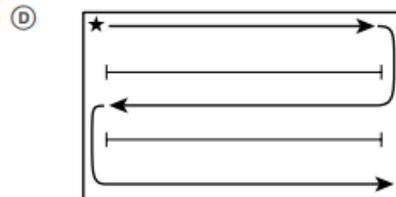
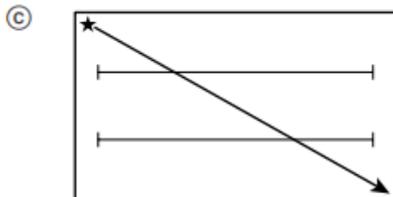
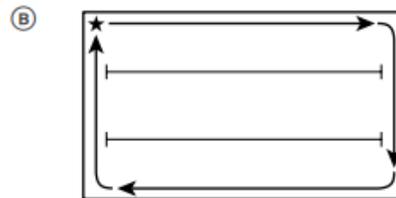
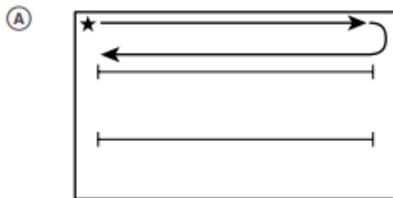
Key:  = 2 rocks

15. Grady is taking swimming lessons in the swimming pool shown below.

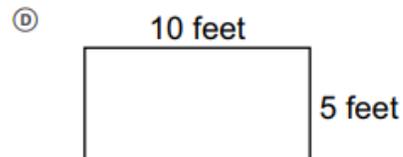
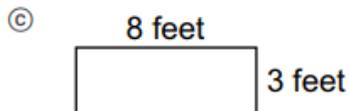
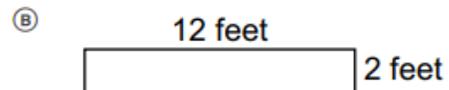
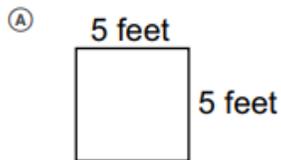


He is going to swim the **perimeter** of the pool.

Which diagram could show the path Grady swims?



16. Which rectangle has an area of 24 square feet and a perimeter less than 25 feet?



## OPEN-ENDED QUESTION

17. Kaylee is painting a picture for her art class.

Kaylee uses the colors red, yellow, green, orange, blue, and purple.

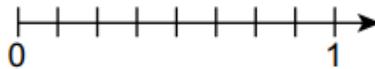
**A.** Purple is what fraction of Kaylee's colors?

**PUT** your answer in the **BLANK BELOW**.

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

Kaylee paints  $\frac{2}{8}$  of her picture with yellow paint.

**B. PLOT** a point on the number line shown below to represent the fraction of Kaylee's picture that is yellow.



17. **Continued.** Please refer to the previous page for task explanation.

Kaylee painted a green rectangle and an orange rectangle on her picture.

The green rectangle has side lengths of 3 inches and 4 inches.

The orange rectangle has side lengths of 2 inches and 6 inches.

Kaylee makes the incorrect claim shown below.

The area of the green rectangle is less than the area of the orange rectangle since  $14 < 16$ .

**C. EXPLAIN** the mistake Kaylee **most likely** made when finding the areas of the two rectangles.

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**D. REWRITE** Kaylee's claim with the correct comparison of the areas.

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