

PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 3 Math

Kaylee Paints

Handscoring
Training Set 1

MATHEMATICS

SECTION 2

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

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

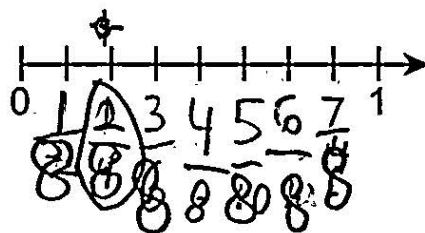
- A. Purple is what fraction of Kaylee's colors?

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

Answer: $\frac{1}{6}$ of 6

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.



MATHEMATICS

SECTION 2

51. **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.

because 14 is less but
switch it around it is
greater than

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

is the correct compare
because the $14 < 16$ is
correct

MATHEMATICS

SECTION 2

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

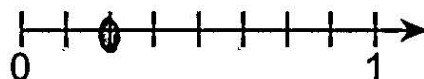
- A. Purple is what fraction of Kaylee's colors?

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

Answer: 1/6

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.



MATHEMATICS

SECTION 2

51. **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.

She said "The area of the green rectangle is less than the orange rectangle but rilly the orange rectangle has a bigger area."

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

She thought the orange rectangle was bigger than the green rectangle but it was not.



MATHEMATICS

SECTION 2

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

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

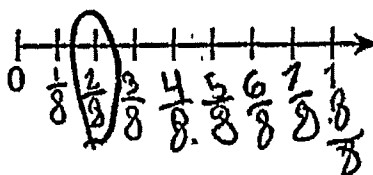
A. Purple is what fraction of Kaylee's colors?

PUT your answer in the BLANK BELOW.

Answer: $\frac{1}{6}$

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.





MATHEMATICS

SECTION 2

51. *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.

Kaylee multiplied incorrect.
 $3 \times 4 = 14$ that is not correct
 $6 \times 2 = 16$ that is not correct.
But $6 \times 2 = 12$ $3 \times 4 = 12$
is correct.

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

The area of the green and
orange rectangle is the
same. $12 = 12$

MATHEMATICS

SECTION 2

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

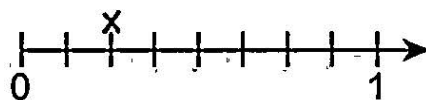
A. Purple is what fraction of Kaylee's colors?

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

Answer: $\frac{1}{6}$

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.



MATHEMATICS

SECTION 2

51. *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.

Kaylee most likely made a mistake with adding up
the perimeter because I know $3+4=7$ $6+2=8$ $8>7$
so how can a 2 inch rectangle can't have a bigger
area than a 3 inch rectangle.

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

The green rectangle's greater than the
area of the orange rectangle since $7 > 8$.



MATHEMATICS

SECTION 2

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

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

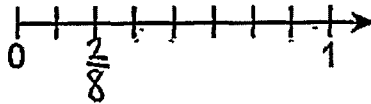
PUT your answer in the BLANK BELOW.

Answer: _____

$\frac{1}{6}$

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.





MATHEMATICS

SECTION 2

51. **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.

I know that Kaylee made a mistake when finding the areas because 3×4 or 2×6 does not equal 14 or 16.

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

The area of both of the rectangles are equal since $12 = 12$.



MATHEMATICS

SECTION 2



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

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

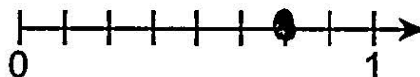
PUT your answer in the **BLANK BELOW**.

Answer: _____

6

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.



MATHEMATICS

SECTION 2

51. **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.

Kaylee's most likely
mistake is that you count
the color and you get 6.

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

Kaylee's claim with the
correct comparison of the
areas is 6

MATHEMATICS

SECTION 2

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

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

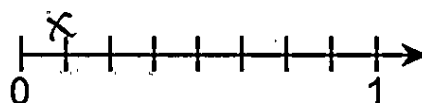
PUT your answer in the **BLANK BELOW**.

Answer:

1/6

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.



MATHEMATICS

SECTION 2

51. **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.

Kaylee incorrect because
 $3 \times 4 = 12$ and $6 \times 2 = 12$
so they are equal.

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

$12 = 12$



MATHEMATICS

SECTION 2



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

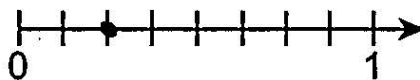
- A. Purple is what fraction of Kaylee's colors?

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

Answer: $\frac{1}{5}$

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.



MATHEMATICS

SECTION 2

51. **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.

Kaylee most likely
did the math wrong
and got 14 and 16

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

Their areas are the same
because $24 = 24$

T

MATHEMATICS

SECTION 2

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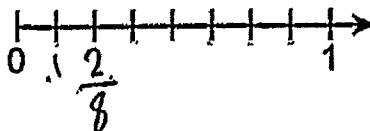
- A. Purple is what fraction of Kaylee's colors?

PUT your answer in the BLANK BELOW.

Answer: $\frac{1}{6}$

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.





MATHEMATICS

SECTION 2

51. *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.

she didn't multipli the
length and width of the
rectangles.

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

$3 \times 4 = 12$ $6 \times 2 = 12$
 $12 = 12$



MATHEMATICS

SECTION 2



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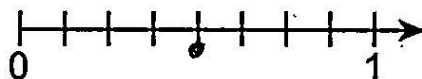
- A. Purple is what fraction of Kaylee's colors?

PUT your answer in the BLANK BELOW.

Answer: $\frac{1}{6}$

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.



MATHEMATICS

SECTION 2

51. **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.

The rectangle has 4
sides.

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

her painting has 4 sides

PSSA Math: Kaylee Paints (Grade 3), Training Set One

Subject: Math

Item: Kaylee Paints

Grade:3

Name _____

Number	Score	Notes
T1-1		
T1-2		
T1-3		
T1-4		
T1-5		
T1-6		
T1-7		
T1-8		
T1-9		
T1-10		