

PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 3 Math

Kaylee Paints

Handscoring
Training Set 2

MATHEMATICS

SECTION 2

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

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

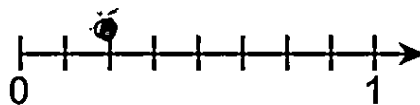
- A. Purple is what fraction of Kaylee's colors?

PUT your answer in the BLANK BELOW.

Answer: 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.



IBM L 10. 1870828.0014

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 made a mistake multiplying the numbers. When I tried solving it, I did $2 \times 6 = 12$ and $3 \times 4 = 12$, so both shapes's areas are exactly the same. Maybe Kaylee should look at this, and hopefully she will do it successfully!

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

The area of the green rectangle is equivalent to the area of the orange rectangle since $12 = 12$.

T

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?

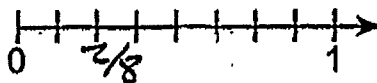
PUT your answer in the BLANK BELOW.

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.



F

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 mistake she made $3 \times 4 = 12$ and
she didn't notice.

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

The correct comparison is $12 < 16$.



MATHEMATICS

SECTION 2



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

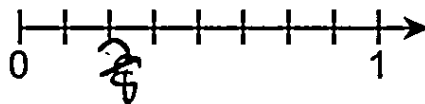
- A. Purple is what fraction of Kaylee's colors?

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.



IBM106.1874123.0022



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 made a mistake because
in inches rectangles can't be
that small but in centimeters they
can.

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

Kaylee is also right because
 $14 < 16$.



MATHEMATICS

SECTION 2



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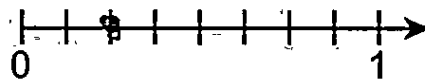
- A. Purple is what fraction of Kaylee's colors?

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.



IBM L 16. 1878499.0010

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 made the orange rectangle taller and green rectangle wider

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

She could have made the orange rectangle shorter

MATHEMATICS

SECTION 2

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

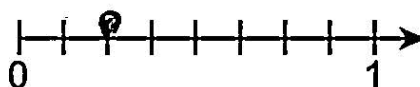
PUT your answer in the BLANK BELOW.

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.



IBML 1D. 1873904.0033

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 sides of the rectangles
are unequal.

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

instead of $14 < 16$ it should
be $12 = 12$

MATHEMATICS

SECTION 2

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

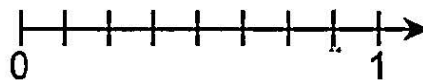
- A. Purple is what fraction of Kaylee's colors?

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.



IBM L 11. 1873700.0042
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 never added or multiplie to find the answer so she never had the right answer.

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

$6 \times 2 = 8$ $3 \times 4 = 12$ $8 < 12$ this is the correct answer.

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?

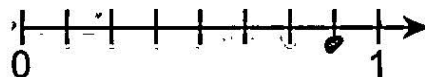
PUT your answer in the **BLANK BELOW**.

Handwritten notes:
 1 purple & 1 red, 2 yellow, 3 green, 4 orange.
 2 purple & 1 blue, 1 purple

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.



IBML 16.1S91605.0026



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 mistake is that she
put $14 < 16$. But it is really $14 > 16$. That
was her mistake on picture.

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

Kaylee's real claim should
really be $14 > 16$.



MATHEMATICS

SECTION 2

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

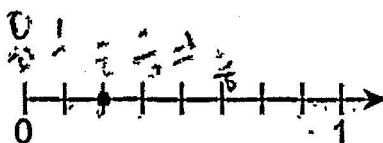
- A. Purple is what fraction of Kaylee's colors.

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.



F

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 counted
wrong and used the wrong operation.

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

The green rectangle is 12
and the orange rectangle is 12,
so that means the two are equal.



MATHEMATICS

SECTION 2



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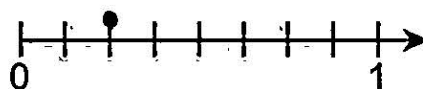
- A. Purple is what fraction of Kaylee's colors?

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

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

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.



IBML 19.1911695.0059

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.

When she found the areas of both rectangles she put $14 < 16$ just because 14 is less than 16, she's wrong, because the length in the first rectangle is bigger.

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

The correct comparison of the two areas is the Orange rectangle $<$ the Green rectangle.

MATHEMATICS

SECTION 2

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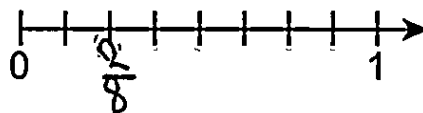
- A. Purple is what fraction of Kaylee's colors?

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.



JBM1 19.187 1524.0033

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 mistake Kaylee made is that she added ten to 6 and 4. She didn't multiply 6 and 2 and 4 and 3 and those both equal 12 so their equal.

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

Ex: $12 = 12$ and 12 are the same number so their equal.
 $12 = 12$

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

Subject: Math

Item: Kaylee Paints

Grade:3

Name _____

Number	Score	Notes
T2-1		
T2-2		
T2-3		
T2-4		
T2-5		
T2-6		
T2-7		
T2-8		
T2-9		
T2-10		