

PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 3 Math

Kaylee Paints

Handscoring
Practice Set 1*

*Responses in this set do not have true scores. Apply scores based on scoring criteria.



MATHEMATICS

SECTION 2



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

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

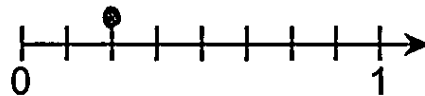
- A. Purple is what fraction of Kaylee's colors?

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.



IBM L 11.1890402.0058
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 probably added all the sides instead of multiplying the length times width.

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

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



MATHEMATICS

SECTION 2

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

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

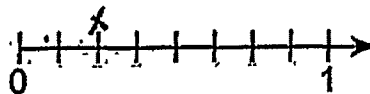
- A. Purple is what fraction of Kaylee's colors?

PUT your answer in the BLANK BELOW.

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

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 got the
answers wrong.

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

The area of the
green rectangle is less
than the area of the orange rectangle
since $12 = 12$.



MATHEMATICS

SECTION 2



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

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

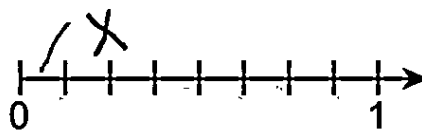
- A. Purple is what fraction of Kaylee's colors?

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.



IBML25.1892665.0051



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.

They both have the same area, so its equal.

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

$$12 = 12$$



MATHEMATICS

SECTION 2



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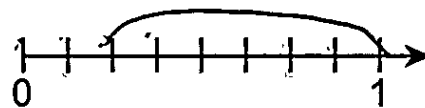
- A. Purple is what fraction of Kaylee's colors?

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

Answer: $\frac{2}{6}$

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.



IB ML 19.1896337.00 12
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 should of did the
opposite she should of did
the less than sign.

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

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

MATHEMATICS

SECTION 2

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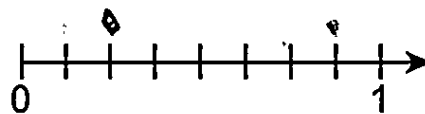
- A. Purple is what fraction of Kaylee's colors?

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

Answer: $\frac{1}{7}$

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 11.1868546.0013

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 area both equal
because 4×3 equals
twelve but so does 2×6 .

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

it'd be correct if green
was something under 12.

MATHEMATICS

SECTION 2

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

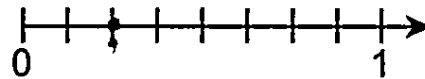
- A. Purple is what fraction of Kaylee's colors?

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 11.1870519.0040



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.

if the green rectangle is less than the orange rectangle then you'd mean 5 inches is incorrect and it should be 2 inches instead of 3

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

the green rectangle should be 2 inches and 4 inches.



MATHEMATICS

SECTION 2



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

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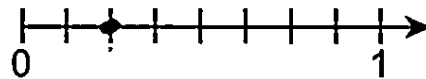
- A. Purple is what fraction of Kaylee's colors?

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.



IBIML 11.18638 13.0043



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 was wrong because $3 \times 4 = 12$
and $2 \times 6 = 12$ so that means
they are equal.

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

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

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?

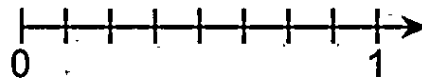
PUT your answer in the **BLANK BELOW**.

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.



IBML 12.1865 151.0063



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 most likely
mistake by finding the areas
of the two rectangles.

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

Kaylee made a most likely
mistake by finding the areas
of the two rectangles.



MATHEMATICS

SECTION 2



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

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

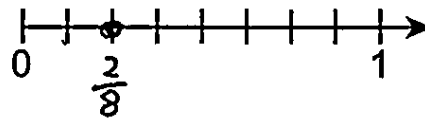
- A. Purple is what fraction of Kaylee's colors?

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.



1BML 11.1863920.0054



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 most likely made
was switching up number and adding
them the wrong way.

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

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



MATHEMATICS

SECTION 2

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

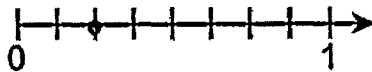
PUT your answer in the BLANK BELOW.

Answer:

$\frac{6}{6}$

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 mistake you suppose to
multiply the sides. $3 \times 4 = 12$ and
 $6 \times 2 = 12$ so it would be equal too.
Not greater than.

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

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

PRACTICE SET 1*

Subject: Math

Item: Kaylee Paints

Grade:3

Name _____

| Number | Score | Consensus | Notes |
|--------|-------|-----------|-------|
| P1-1 | | | |
| P1-2 | | | |
| P1-3 | | | |
| P1-4 | | | |
| P1-5 | | | |
| P1-6 | | | |
| P1-7 | | | |
| P1-8 | | | |
| P1-9 | | | |
| P1-10 | | | |

* Responses in this set do not have true scores. Apply scores based on scoring criteria.