# ERROR ANALYSIS TASKS

Name: Irevor Paytas

\_Date: Jan 16

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

A recipe that Vanessa is making requires <sup>3</sup>/<sub>4</sub> of a cup of milk. This is <sup>1</sup>/<sub>4</sub> of a cup more milk than she has. How much milk does Vanessa have?

#### Vanessa has I cup of milk.

What did the student do wrong? Why do you think the student made this error?

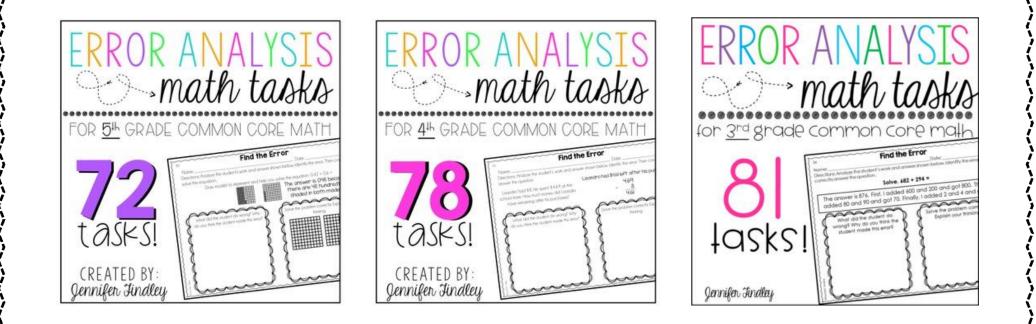
The student added because the problem said "more". However, the problem was saying that what she needed was more than what she had, which means she had less than that. The student should have subtracted.

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Solve the problem correctly. Show all of your work. 3-1-2-1-2-1-2 Vanessa has L CUP OF milk.

#### about this Freebie

This freebie includes 9 Math Error Analysis Tasks (3 specific to 3<sup>rd</sup> grade math standards, 3 specific to 4<sup>th</sup> grade math standards and 3 specific to 5<sup>th</sup> grade standards). If you are interested in more standards based error analysis tasks, click on the links below.



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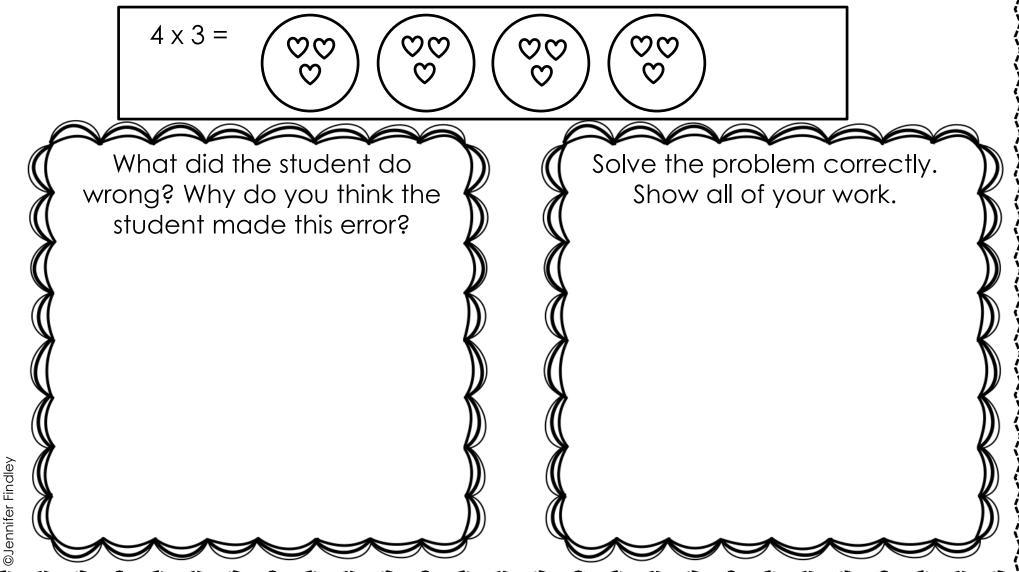
3rd Grade

Name:

Date: \_

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

Draw a model and write a multiplication equation that matches this situation: 3 groups of 4 objects



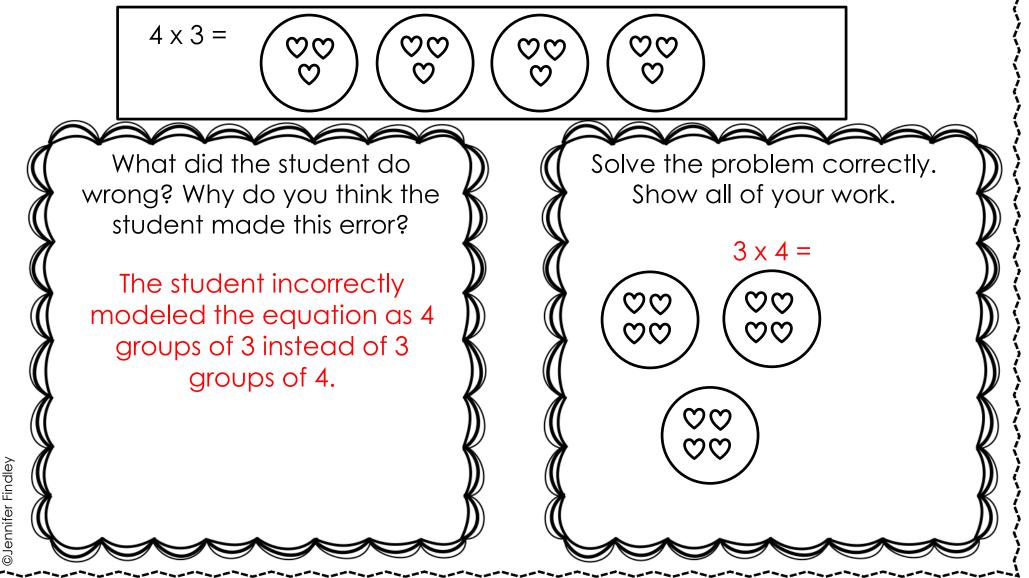
Answer Key

Name:

Date: \_

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

Draw a model and write a multiplication equation that matches this situation: 3 groups of 4 objects



Name:

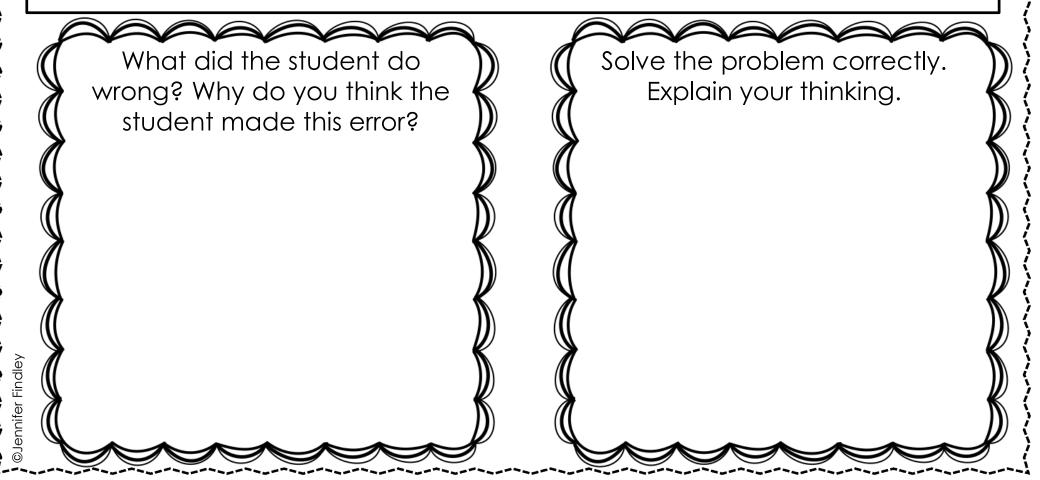
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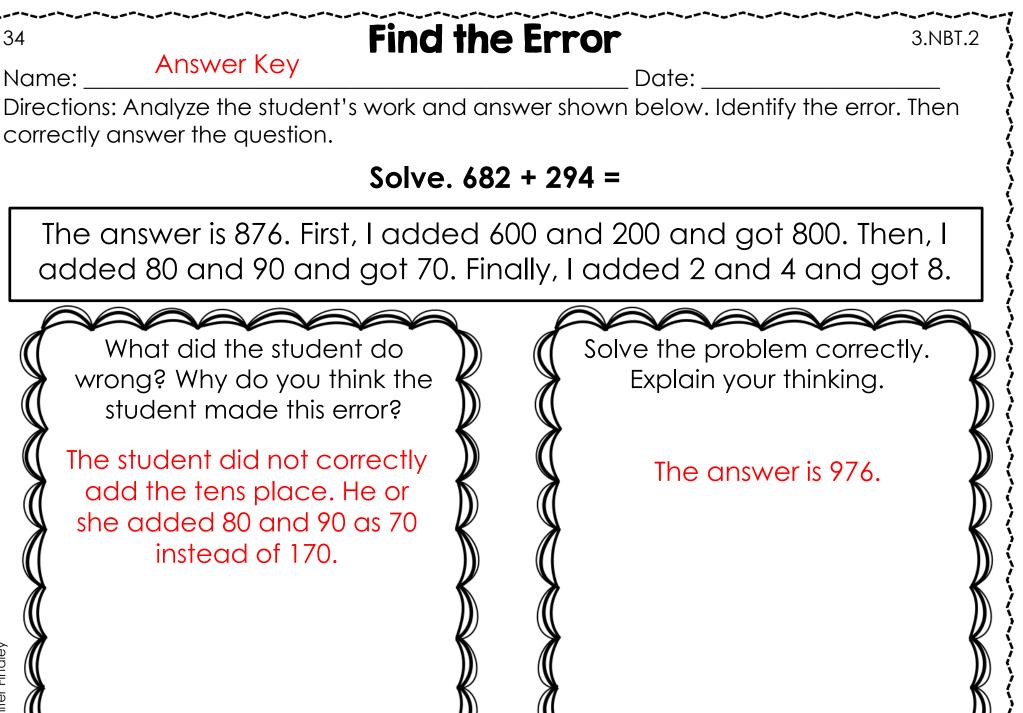
Date: \_

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

#### Solve. 682 + 294 =

The answer is 876. First, I added 600 and 200 and got 800. Then, I added 80 and 90 and got 70. Finally, I added 2 and 4 and got 8.





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3.MD.8

Name:

Date: \_

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

Find the perimeter of the square.

10 inches

The perimeter of the square is 100 inches.

What did the student do wrong? Why do you think the student made this error? Solve the problem correctly. Explain your thinking.

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3.MD.8

Name:

Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

Find the perimeter of the square.

Answer Key

10 inches

The perimeter of the square is 100 inches.

What did the student do wrong? Why do you think the student made this error?

The student found the area of the square, or the student multiplied the length and the width instead of adding all of the sides. Solve the problem correctly. Explain your thinking.

The perimeter of the square is 40 inches.

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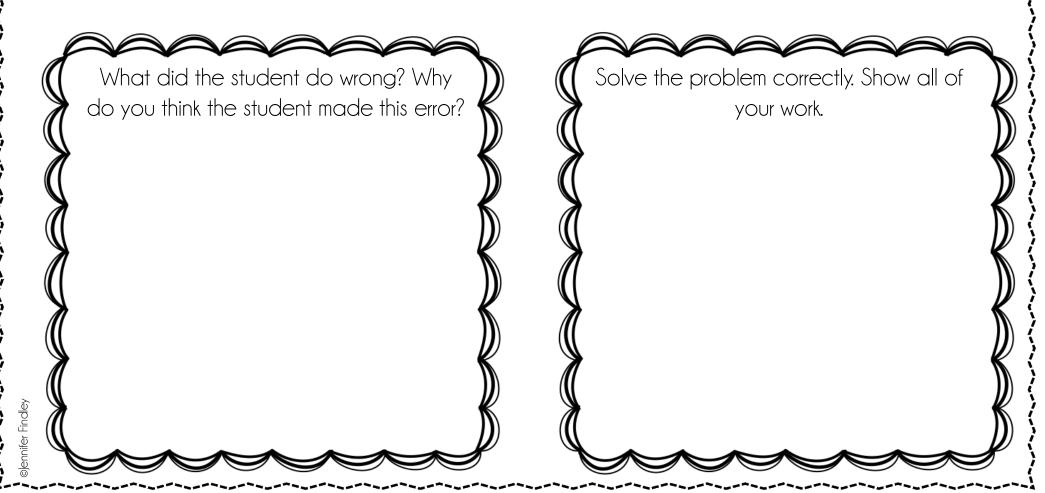
4th Grade

Name:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

Stephen read 12 pages of his assigned reading last night. His friend, Sarai, read 4 more pages than Stephen did. How much did Sarai read? Sarai read 48 pages of her assigned reading.

Date:



Answer Key

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly answer the question.

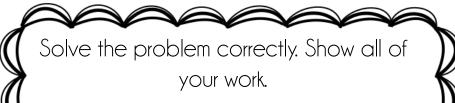
Stephen read 12 pages of his assigned reading last night. His friend, Sarai, read 4 more pages than Stephen did. How much did Sarai read?

What did the student do wrong? Why do you think the student made this error?

The student multiplied instead of adding. This problem is an additive comparison, not a multiplicative comparison problem. Sarai read 48 pages of her assigned reading.

Date:

4.OA.2



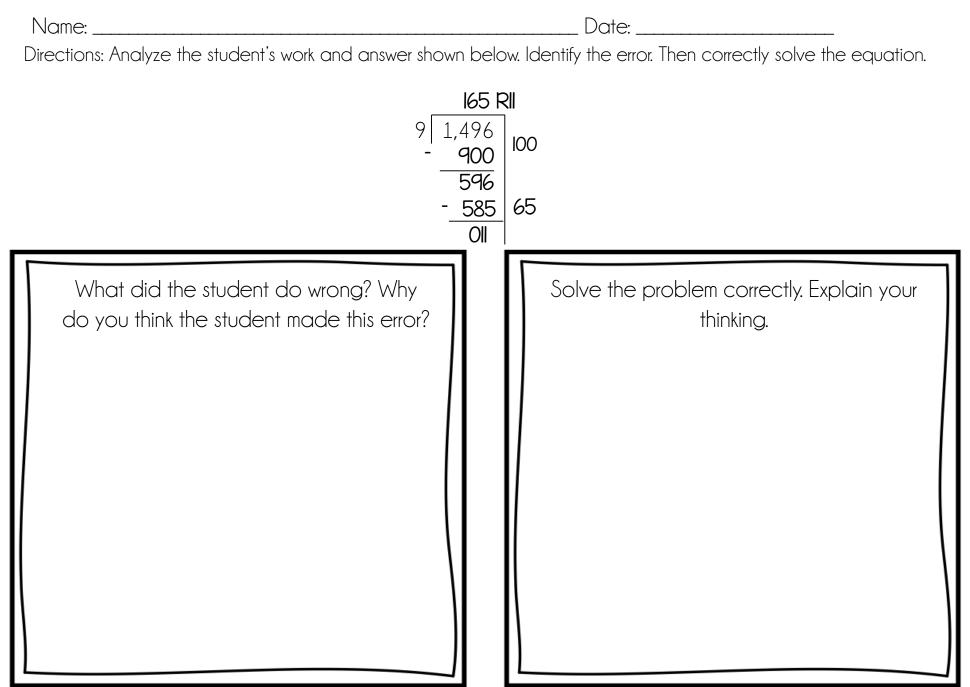
12 + 4 = 16

Sarai read 16 pages of her assigned reading because 16 is 4 more than 12.

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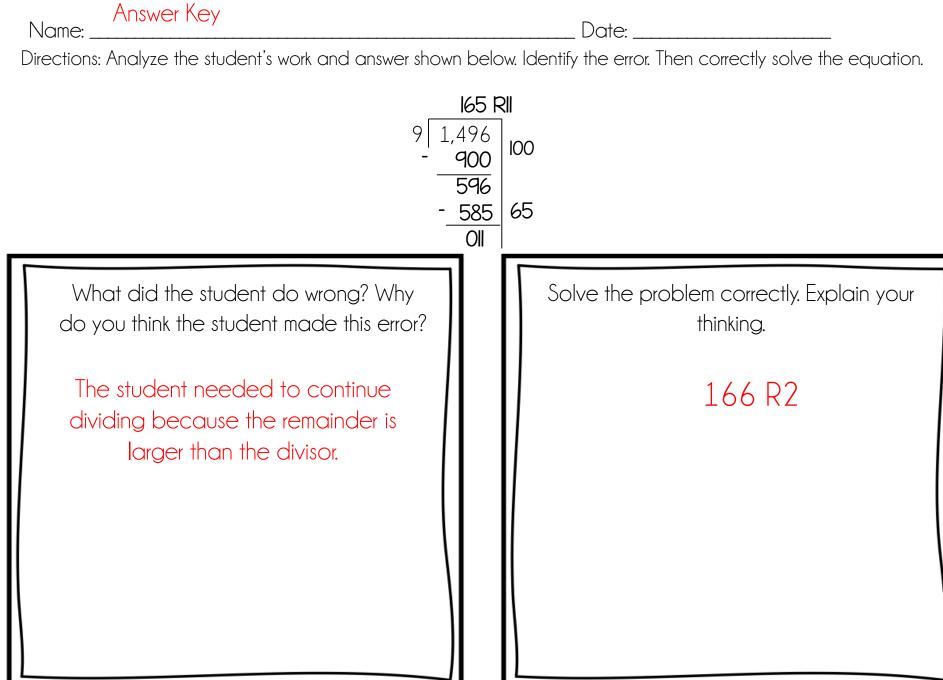
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Name:

38

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Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

Solve.

 $\frac{4}{6} + \frac{1}{6} = \frac{5}{12}$ 

What did the student do wrong? Why do you think the student made this error?

Solve the problem correctly. Show all of your work.

4.NF.3

Date:

4.NF.3

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

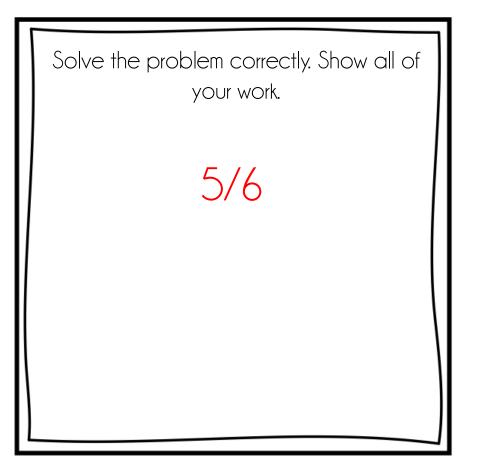
Solve.

Answer Key

 $\frac{4}{6} + \frac{1}{6} = \frac{5}{12}$ 

What did the student do wrong? Why do you think the student made this error?

The student added the denominators together in addition to adding the numerators.



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5th Grade

Name:

Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

Solve.  $24 \div 6 \times 2 = \sqrt{24} \div 12 = 2$ 

What did the student do wrong? Why do you think the student made this error?

Solve the problem correctly. Show all of your work.

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5.0A.1

Answer Key

Name:

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Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

Solve.  $24 \div 6 \times 2 = \sqrt{24} \div 12 = 2$ 

What did the student do wrong? Why do you think the student made this error?

The student did not follow the order of operations by going left to right when multiplication and division are both in an equation.

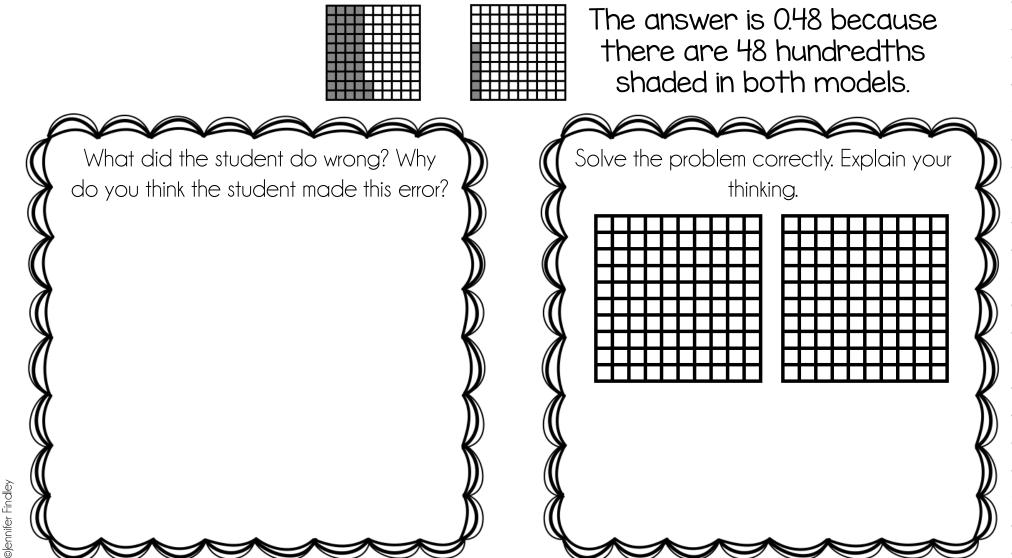
Solve the problem correctly. Show all of your work.	
8	

\_Date:

5.NBT.7

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

Draw models to represent and help you solve the equation: 0.42 + 0.6 =



30

Answer Key

Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

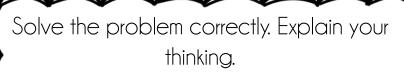
Draw models to represent and help you solve the equation: 0.42 + 0.6 =

What did the student do wrong? Why do you think the student made this error?

The student incorrectly represented 0.6 as 0.06, changing the problem.

The answer is 0.48 because there are 48 hundredths shaded in both models.

5.NBT.7



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0.66

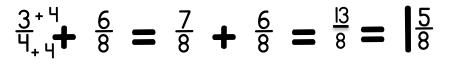
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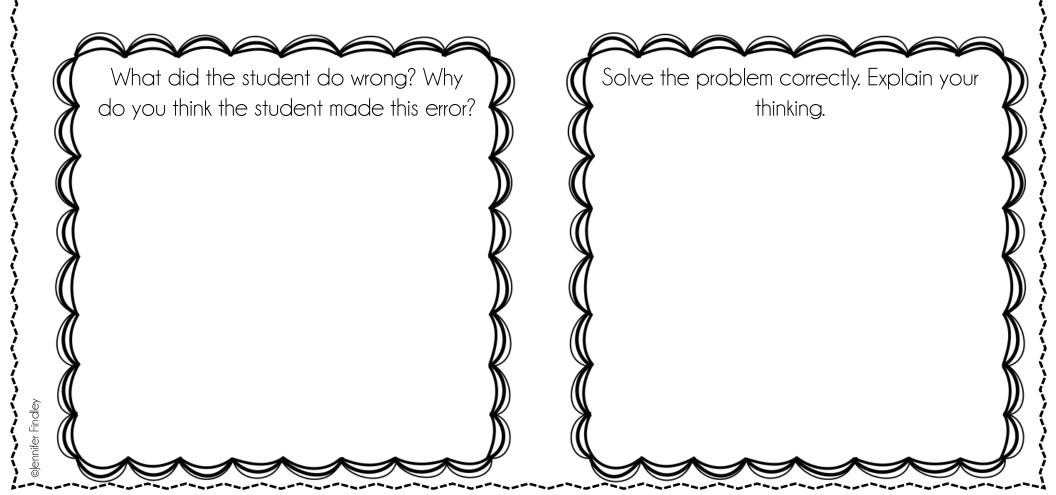
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Name:

Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation. Solve.





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Date:

Directions: Analyze the student's work and answer shown below. Identify the error. Then correctly solve the equation.

Solve.

Answer Key

 $\frac{3^{+}}{4_{+}} + \frac{6}{8} = \frac{7}{8} + \frac{6}{8} = \frac{13}{8} = \frac{5}{8}$ 

What did the student do wrong? Why do you think the student made this error? When changing <sup>3</sup>/<sub>4</sub> to an equivalent fraction with a denominator of 8, the student incorrectly added four instead of multiplying. Solve the problem correctly. Explain your thinking.

5.NF.1-2

1 4/8 or 1 1/2

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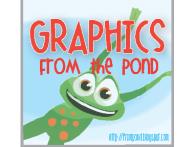
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