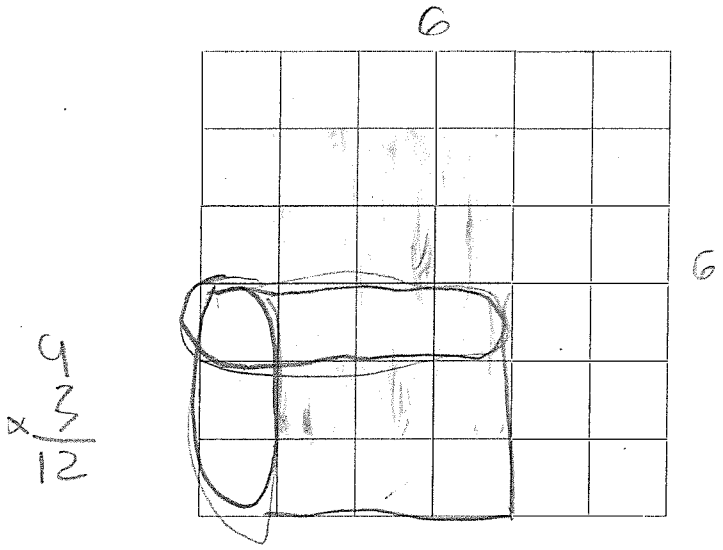
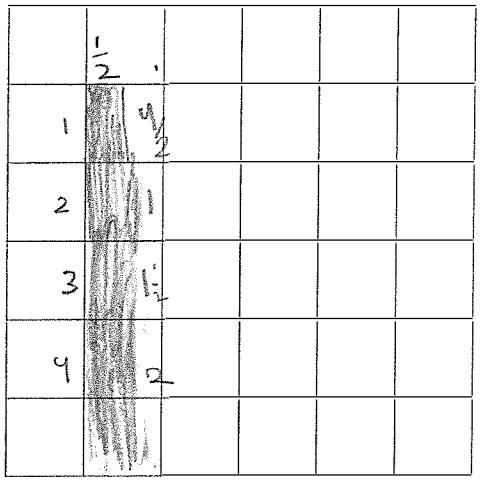
Name: Sara xxxxxxxx Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



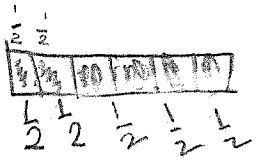
B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



Name Sayra Application Problems:

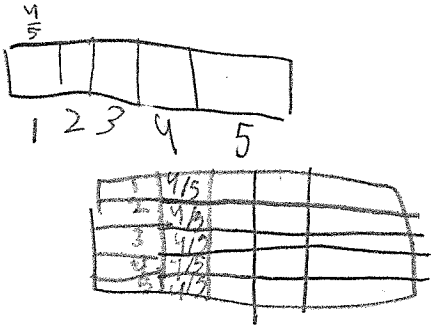
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



$6 \times \frac{1}{2} = \frac{6}{2} = 3$

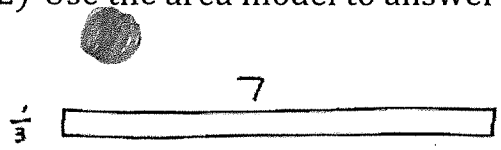
b. 5 by $\frac{4}{5}$



$5 \times \frac{4}{5} = \frac{20}{5} = 4$

c. $\frac{3}{4}$ by 8

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3} = -$

b. Find the area of the rectangle.

$\frac{7}{1} \times \frac{1}{3} = \frac{7}{3} = 4\frac{1}{3}$

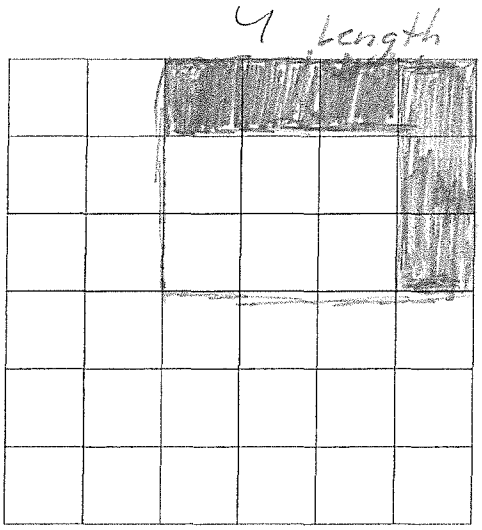
c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

It proves this because 7 was scaled down to $4\frac{1}{3}$ because $\frac{1}{3}$ is less than 1 whole.

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

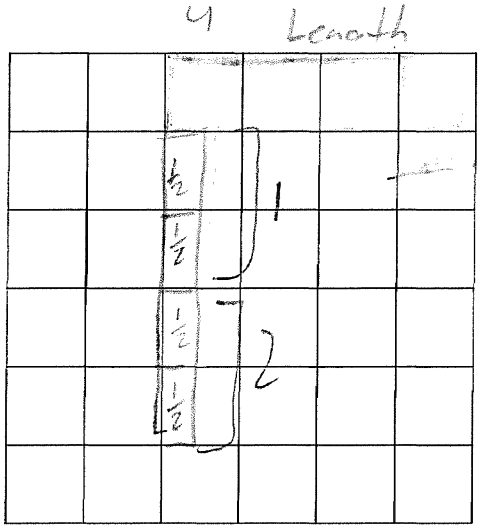
Name: A.nnabelle Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



$4 \times 3 = 12$

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



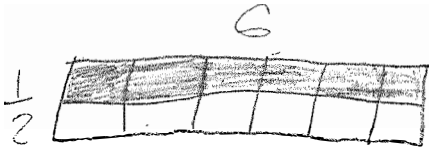
$4 \times \frac{1}{2} = \frac{4}{2} = 2$

The total will be smaller because the fraction is less than a whole.

Name: Annabelle Application Problems:

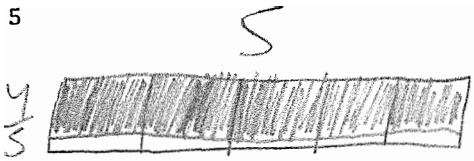
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

☆ a. $\frac{1}{2}$ by 6



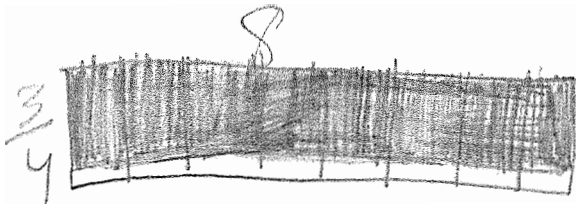
$\frac{1}{2} \times 6 = \frac{6}{2} = 3$ sq units

☆ b. 5 by $\frac{4}{5}$



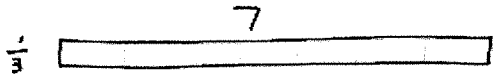
$5 \times \frac{4}{5} = \frac{20}{5} = 4$ sq units

c. $\frac{3}{4}$ by 8



$\frac{3}{4} \times 8 = \frac{24}{4} = 6$ sq units

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

b. Find the area of the rectangle. $\frac{1}{3} \times 7$

$\frac{1}{3} \times 7 = \frac{7}{3} = 2\frac{1}{3}$

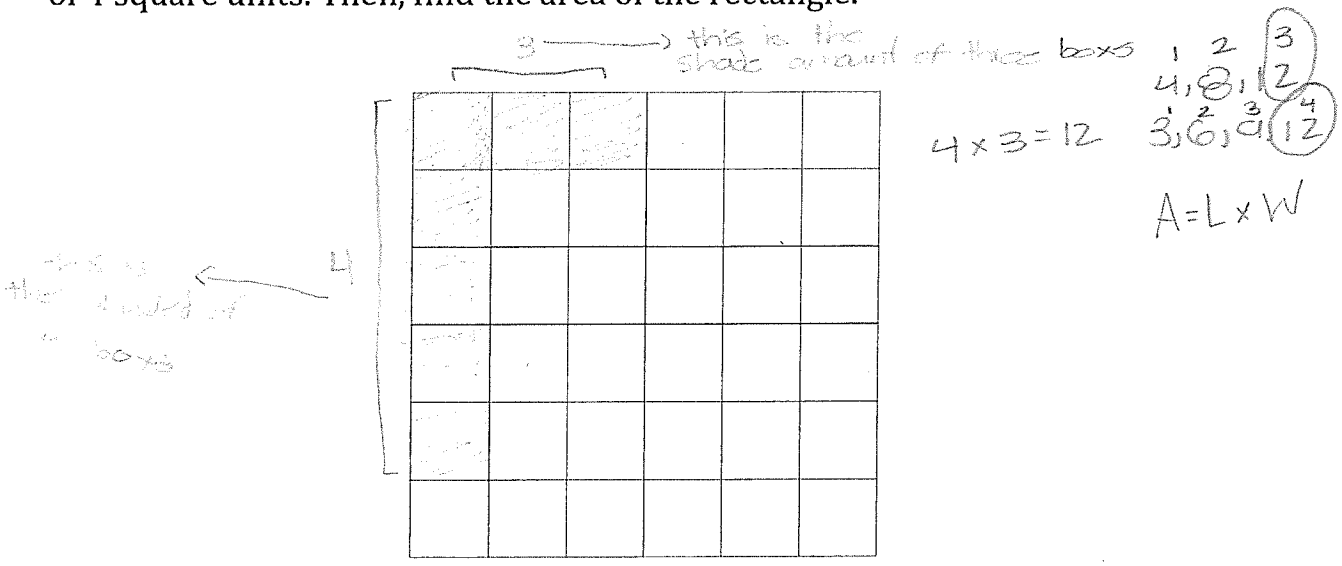
c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

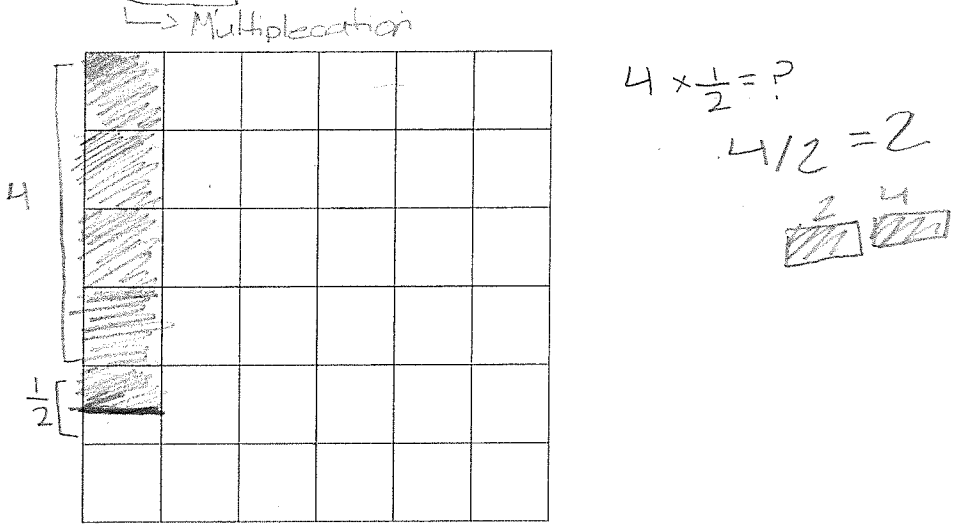
$12 \times \frac{2}{3} = \frac{24}{3} = 8$

Name: Isha Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



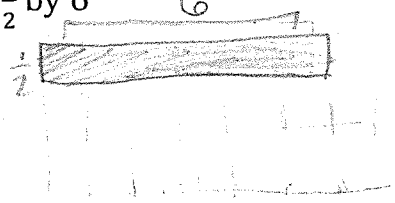
B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

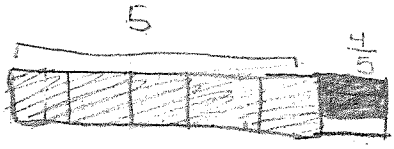
a. $\frac{1}{2}$ by 6



$6 \times \frac{1}{2} = 6/2$

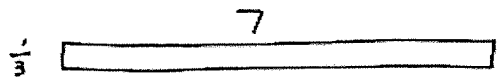
$= 3$ square units

b. 5 by $\frac{4}{5}$



c. $\frac{3}{4}$ by 8

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

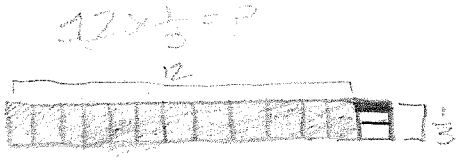
$7 \times \frac{1}{3} = ?$

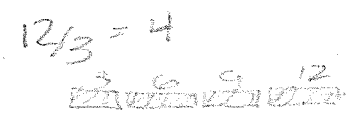
b. Find the area of the rectangle.

$7 \times \frac{1}{3} = \frac{7}{3} = 2\frac{1}{3}$

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

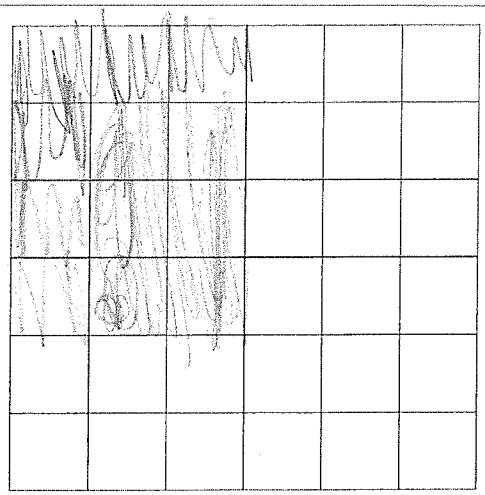
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.





Name: Faz0 Problem-Solving Task

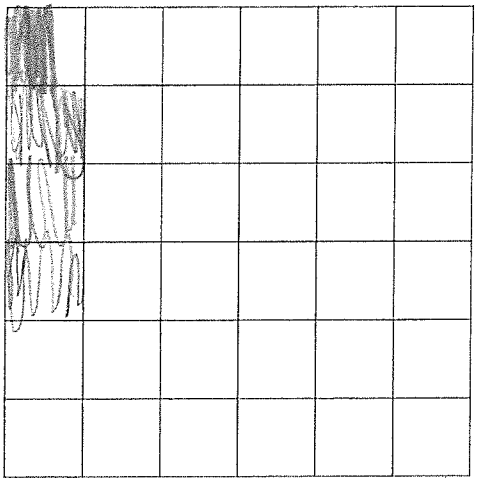
A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



12

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

1 half

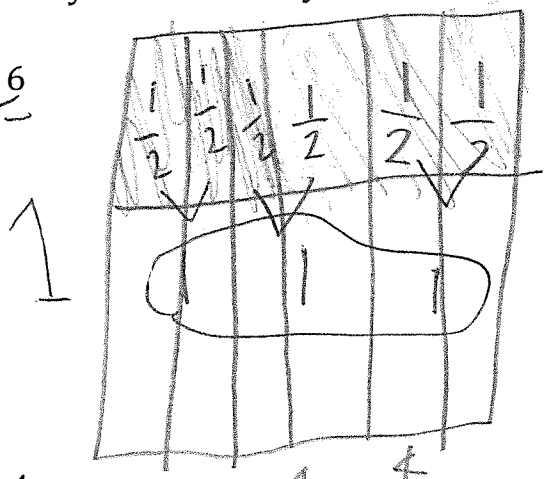


$3\frac{1}{2}$

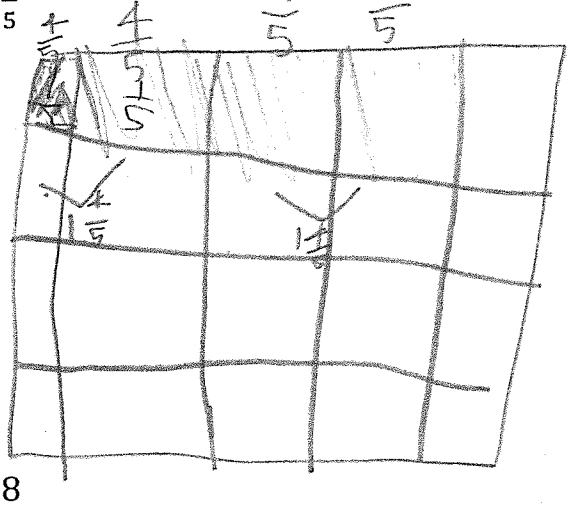
Name KEY Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



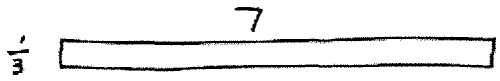
b. 5 by $\frac{4}{5}$



$1\frac{4}{5} + 1\frac{4}{5} = 3\frac{4}{5}$

c. $\frac{3}{4}$ by 8

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

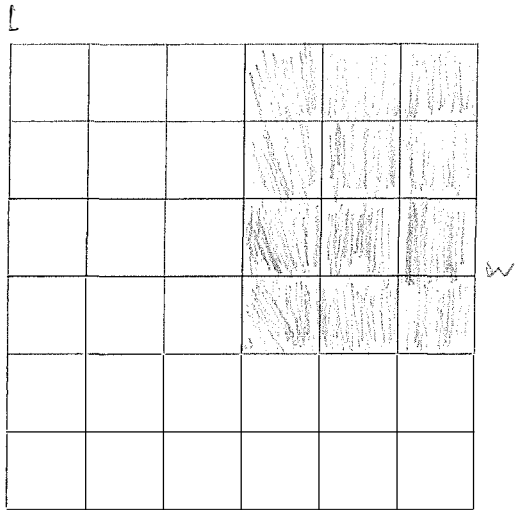
b. Find the area of the rectangle.

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

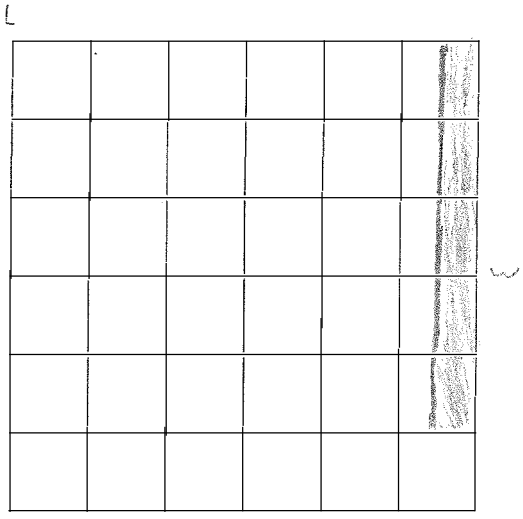
Name: Melody _____ Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



$3 \times 4 = 12$

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



$4 \times \frac{1}{2} = 2 = \frac{4}{2}$

$(4 \times 1) \div 2 = 2$

4

Name _____ Application Problems:

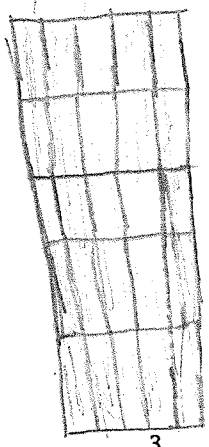
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

$\frac{6}{2} = 3$

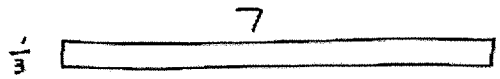
b. 5 by $\frac{4}{5}$

$\frac{4}{5} \times 5 = 4$



c. $\frac{3}{4}$ by 8

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3}$

b. Find the area of the rectangle.

$\frac{7}{3} = 2\frac{1}{3}$

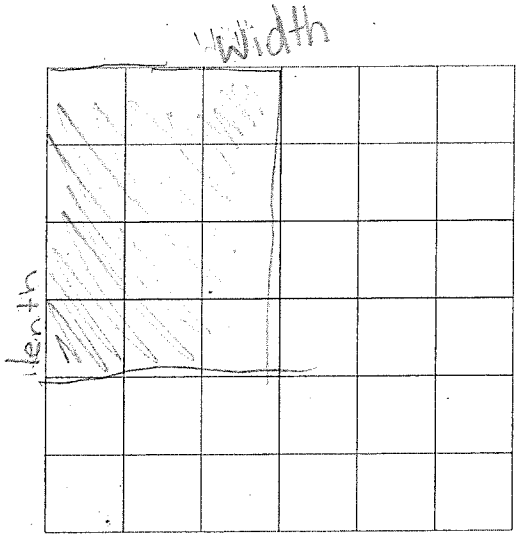
c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

It proves that

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

Name: Muna Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.

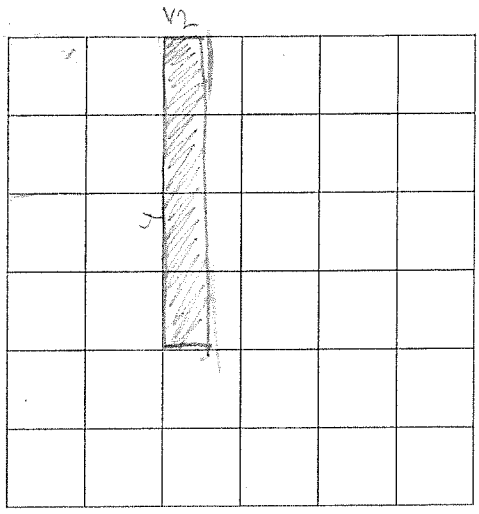


= 12

3x4=12

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

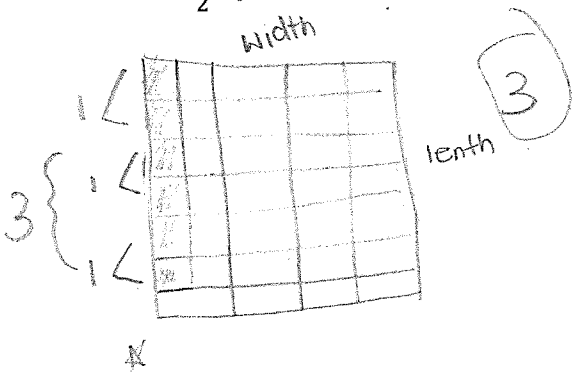
I am kind of confused. 4÷½ or 4x½



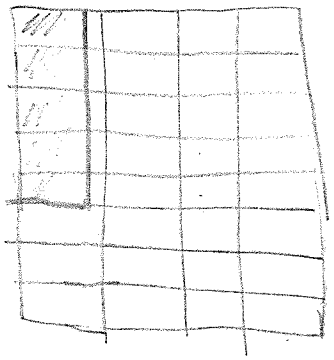
Name Muna Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



b. 5 by $\frac{4}{5}$



$\frac{20}{5}$ or 4

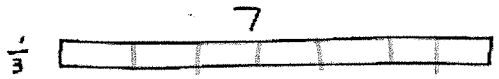
c. $\frac{3}{4}$ by 8

6

$\frac{24}{4} = 6$

Muna

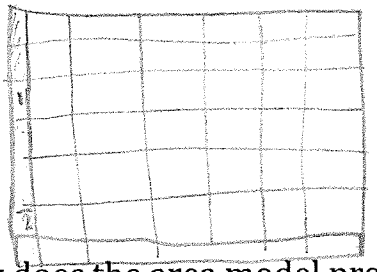
2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

1/3 x 7

b. Find the area of the rectangle.

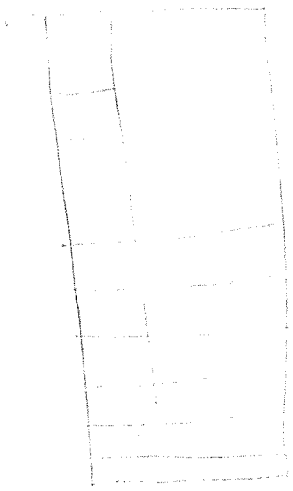


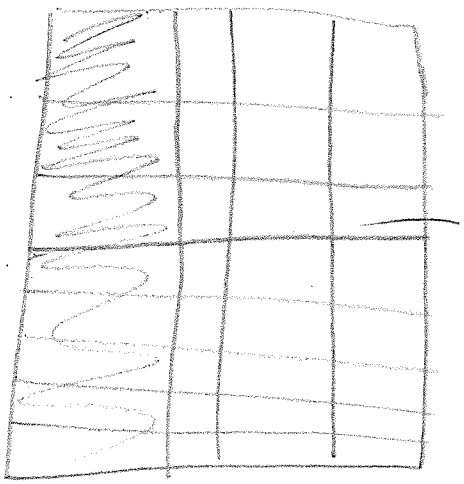
2 1/3 sq

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

When we multiply by by less than 1, our product scale goes down and the other number scales goes up this model shows 1/3 x 7 and 1/3 is less than 7 and so we get a product as 2 1/3 which is less than seven, but greater than 1/3

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.





Name: Melissa Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.

↳ Multiplication

$3 \times 4 = 12$

	1	2	3		
1	1	2	3		
2	4	5	6		
3	7	8	9		
4	10	11	12		

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

↳ Multiplication

$1/2 \times 4 = 4/2 = 2$

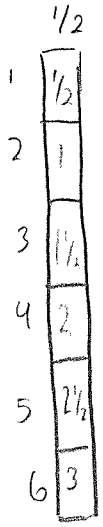
	1/2	1			
1	1/2				
2	1				
3	1 1/2				
4	2				

Name Melissa Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

$1/2 \times 6$

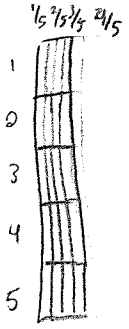


$1/2 \times 6 = 6/2 =$ 3 square units

b. 5 by $\frac{4}{5}$

$5 \times 4/5 =$

$20/5 =$ 4 square units

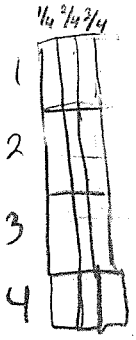


$4/5 \times$

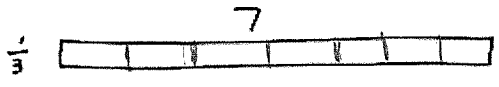
c. $\frac{3}{4}$ by 8

$3/4 \times 8 = 24/4$

6 square units



2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

1/3 × 7

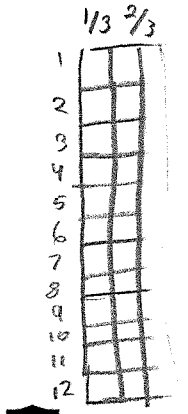
b. Find the area of the rectangle.

1/3 × 7 = 7/3 = 2 1/3 square units

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

The area model proves that multiplying by a fraction less than one scales the other factor down, by showing 1/3

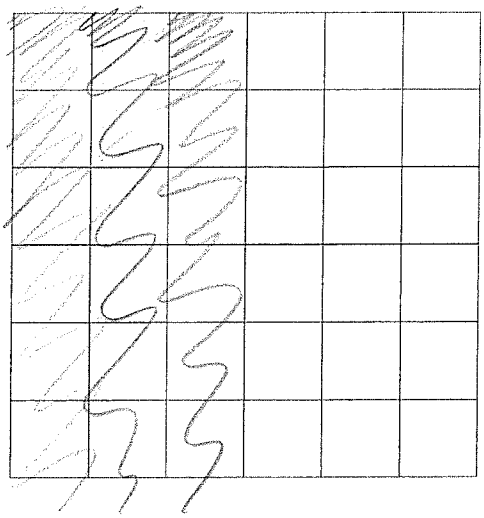
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



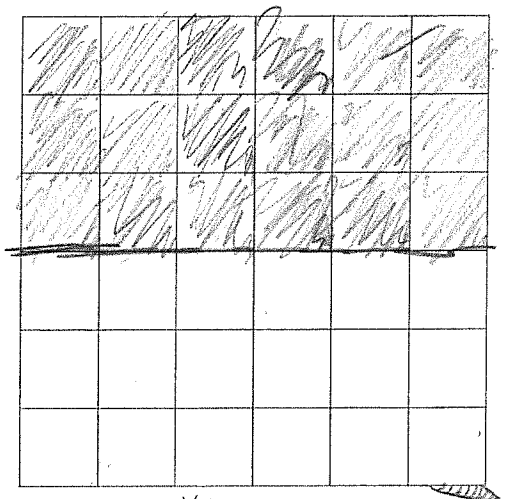
12 × 2/3 = 24/3

Name: Roko .y. .y. Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

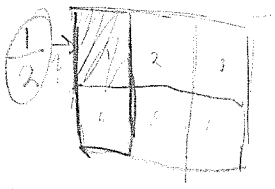


18x18=164

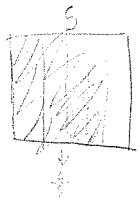
Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

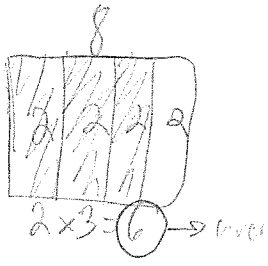
a. $\frac{1}{2}$ by 6



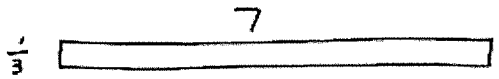
b. 5 by $\frac{4}{5}$



c. $\frac{3}{4}$ by 8



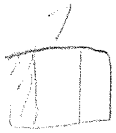
2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

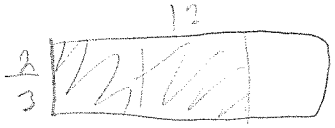
$7 \times \frac{1}{3}$

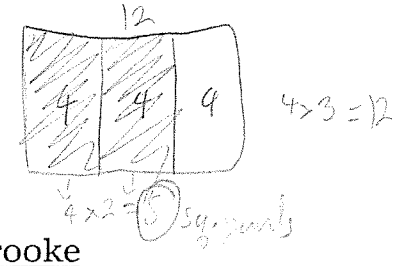
b. Find the area of the rectangle.



c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

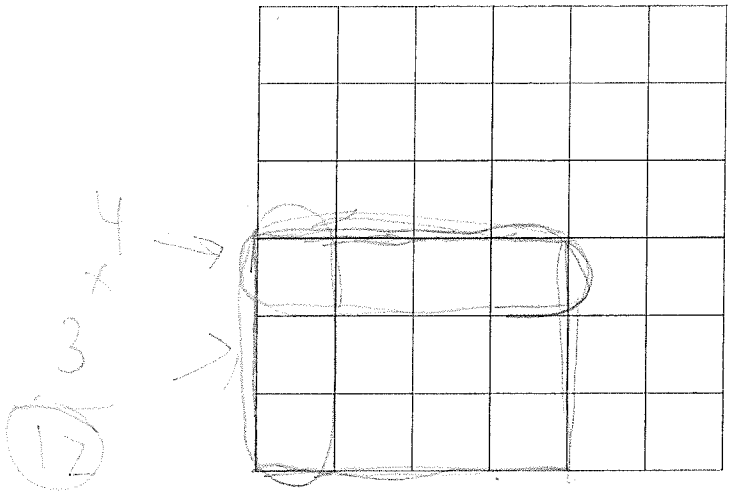
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



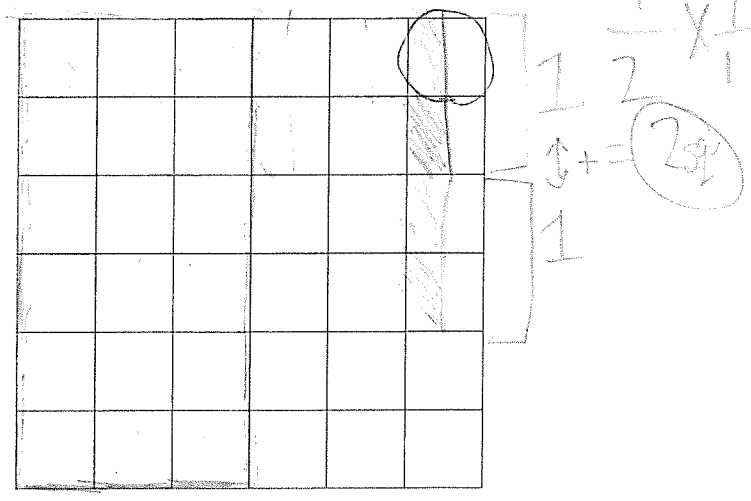


Name: Alexander Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



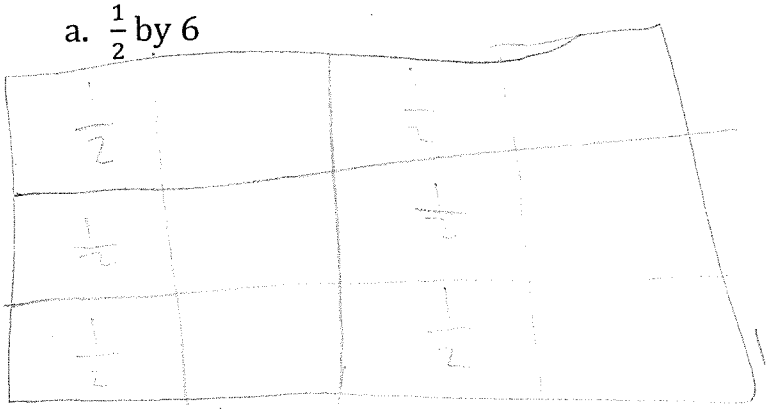
B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

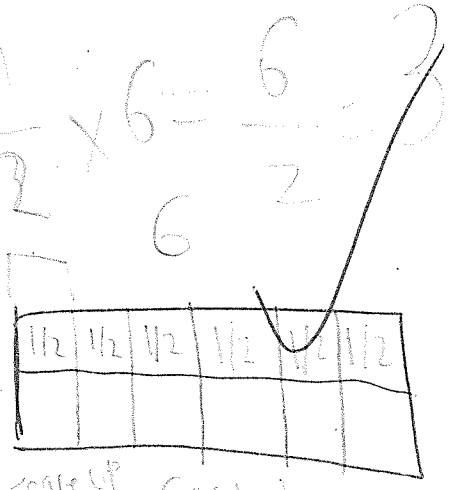


Name _____ Application Problems:

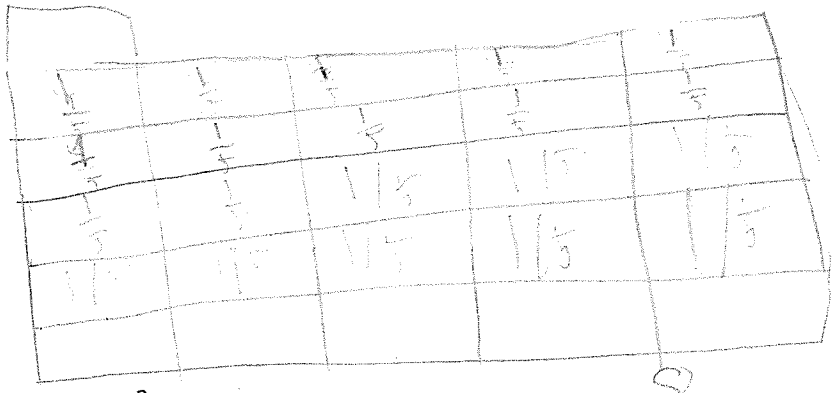
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



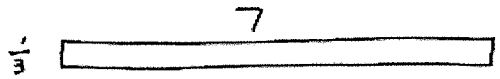


b. 5 by $\frac{4}{5}$



c. $\frac{3}{4}$ by 8

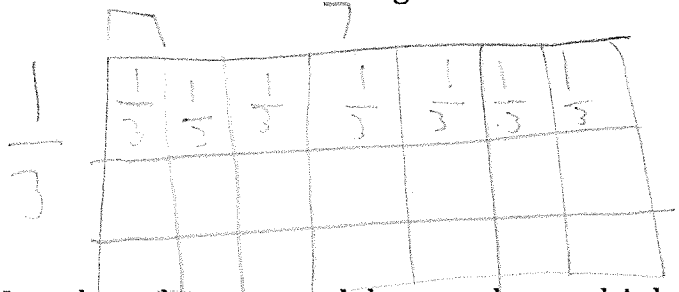
2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$\frac{1}{3} \times 7 = \frac{7}{3} = 2\frac{1}{3}$

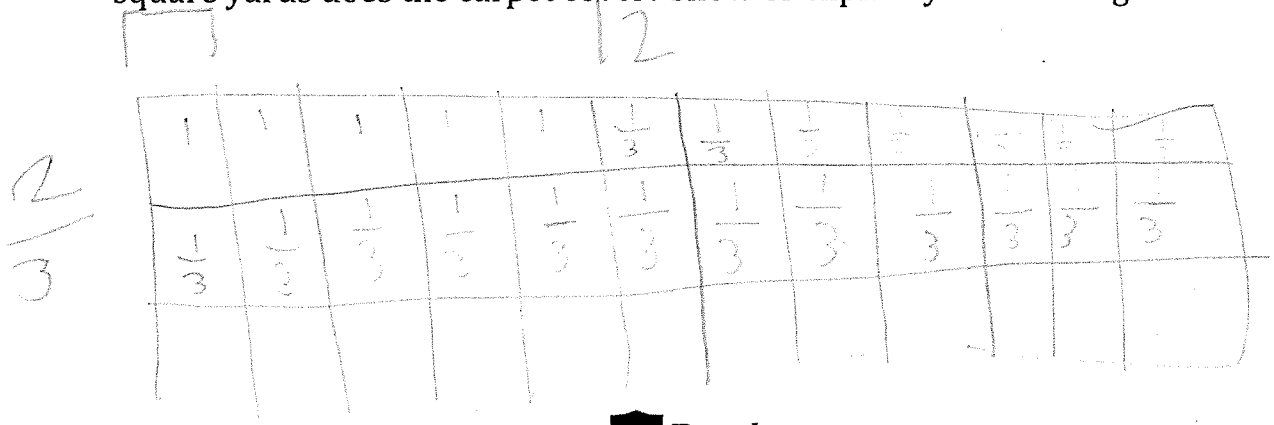
b. Find the area of the rectangle.



c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

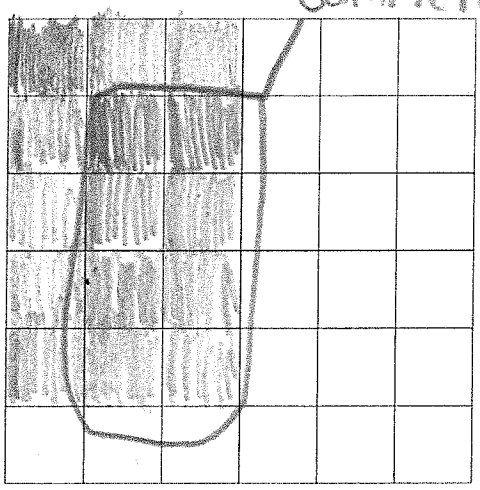
because if a fraction that is not equal or a fgto we know the fraction will [illegible]

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

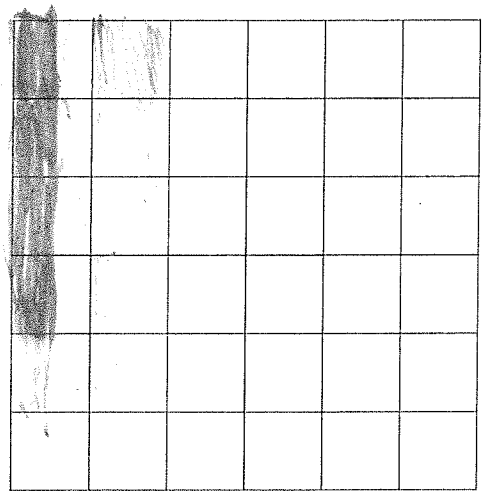


Name: Sebas Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



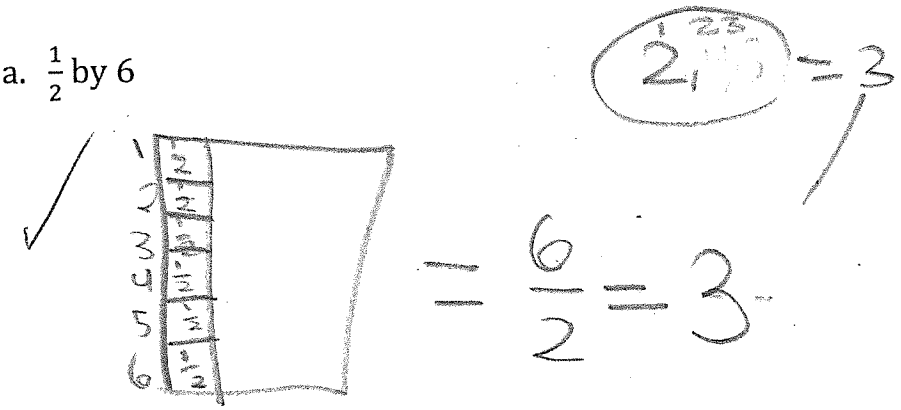
B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



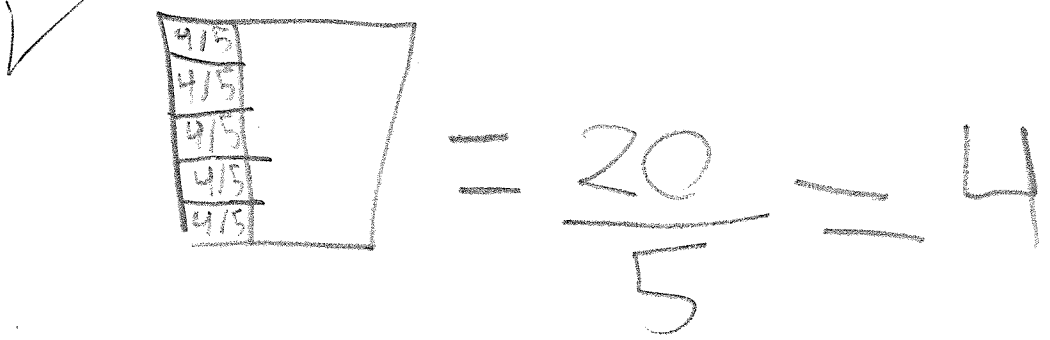
Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

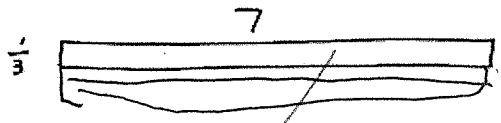


b. 5 by $\frac{4}{5}$



c. $\frac{3}{4}$ by 8

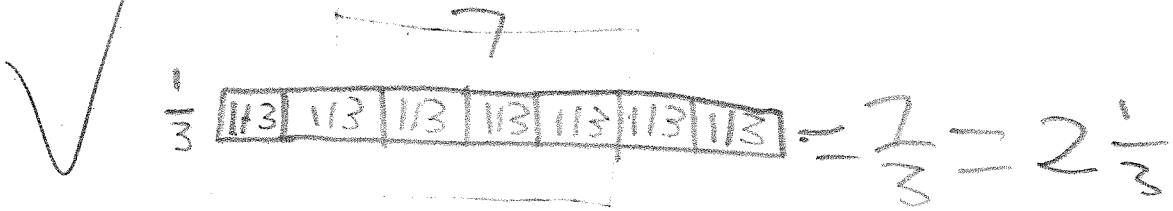
2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3}$

b. Find the area of the rectangle.

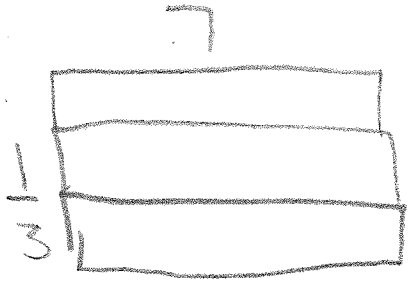


$= \frac{7}{3} = 2\frac{1}{3}$

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

Small

$7 \times \frac{1}{3} = \frac{7}{3} \rightarrow 2\frac{1}{3}$



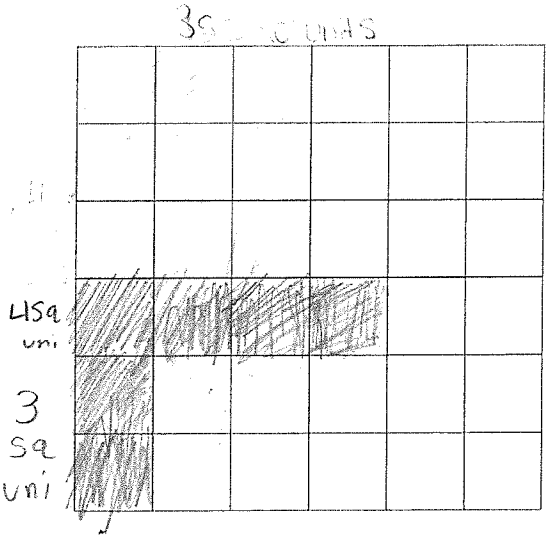
You are taking $\frac{1}{3}$ of 7.

↓ fraction less than one

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

Name: Natalia xxxxxxxx Problem-Solving Task Dec. 5th

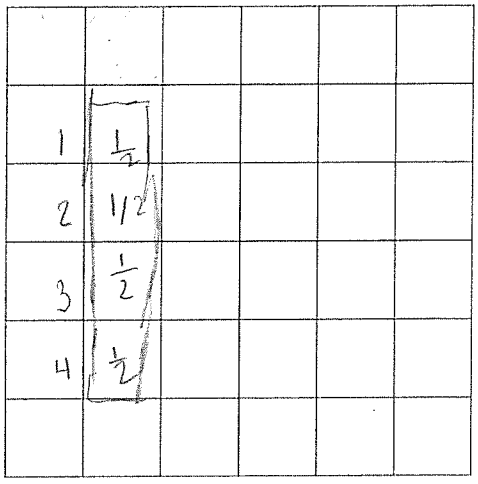
A. Use the grid below to model a rectangle with a width of (3) square units and a length of (4) square units. Then, find the area of the rectangle.



4 x 3 = 12 square units

? = 12 square units

B. Use the grid below to model a rectangle with a width of $(\frac{1}{2})$ square unit and a length of (4) square units. Then, find the area of the rectangle.



$\frac{1}{2} \times 4 = 4/2$

$4/2 = 2$

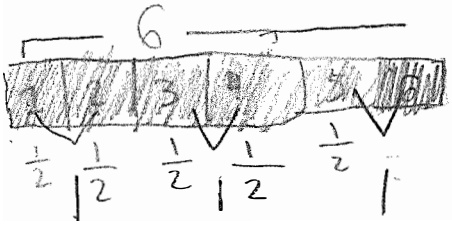
Name: Natalia

Application Problems: Dec. 3rd

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

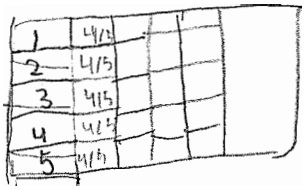
$6 \times \frac{1}{2} = \frac{6}{2} = 3$



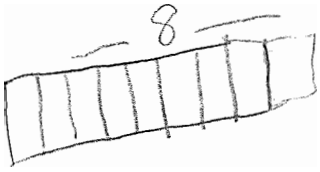
? = 3

b. 5 by $\frac{4}{5}$

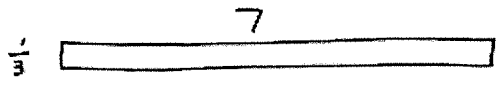
$5 \times \frac{4}{5} = \frac{20}{5} = 4$



c. $\frac{3}{4}$ by 8



2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3}$

b. Find the area of the rectangle.

$\frac{7}{1} \times \frac{1}{3} = \frac{7}{3} = 4\frac{1}{3}$

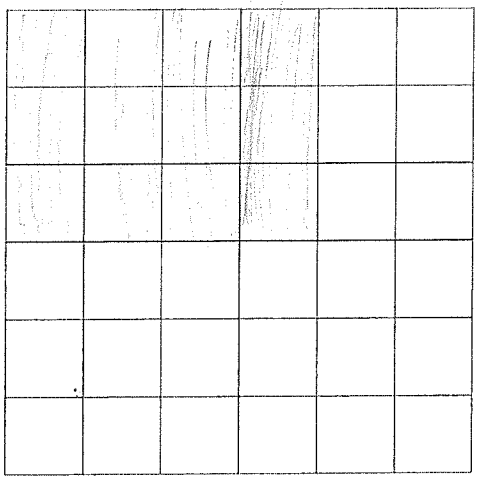
c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

It proves this because 7 was scaled down to $4\frac{1}{3}$, because $\frac{1}{3}$ is less than 1 whole

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

Name: Jazmarie Problem-Solving Task

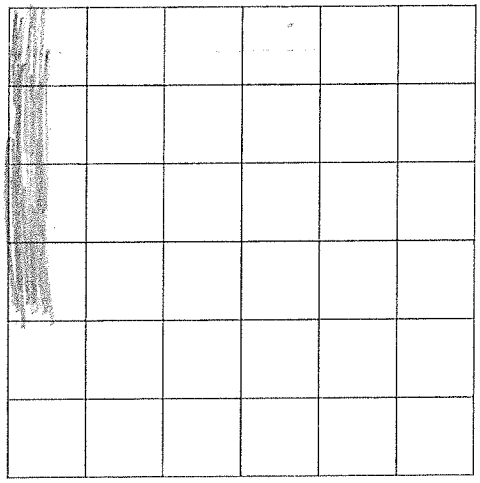
A. Use the grid below to model a rectangle with a ~~width of 3 square units~~ and a length of 4 ~~square units.~~ Then, find the area of the rectangle.



$4 \times 3 = 12$

The area is 12 square units.

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



$4 \times \frac{1}{2} = \frac{4}{2} = 2$

The area of the rectangle is $\frac{4}{8}$ square units.

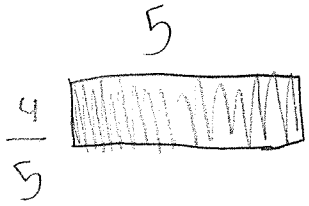
Name Jazmarie Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

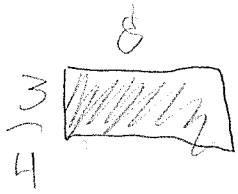
$6 \times \frac{1}{2} = \frac{6}{2} = 3$

b. 5 by $\frac{4}{5}$



$5 \times \frac{4}{5} = \frac{20}{5} = 4$

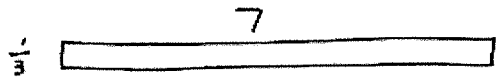
c. $\frac{3}{4}$ by 8



$8 \times \frac{3}{4} = \frac{24}{4} = 6$

Jazmarie

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3} = ?$

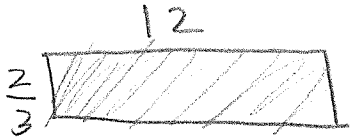
b. Find the area of the rectangle.

$7 \times \frac{1}{3} = \frac{7}{3}$

$\frac{7}{3} = 2\frac{1}{3}$ square units

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down? It shows that we are taking $\frac{1}{3}$ of 7 so its like doing 7÷3 and when we use division the answer scales down.

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



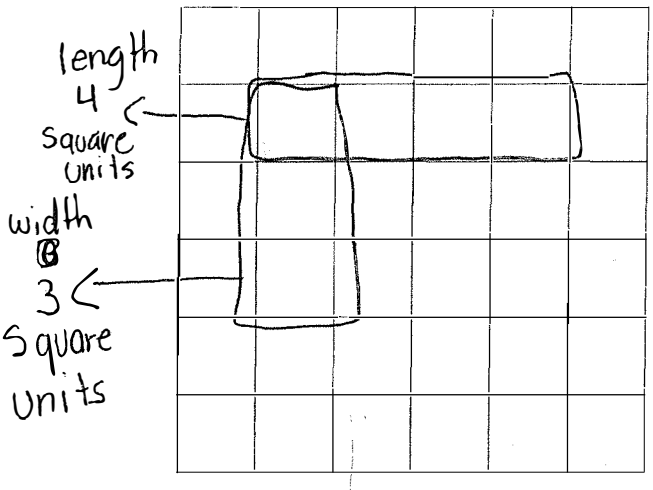
$12 \times \frac{2}{3} = \frac{24}{3}$

$\frac{24}{3} = 8$ square yards

NAME: ANA

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.

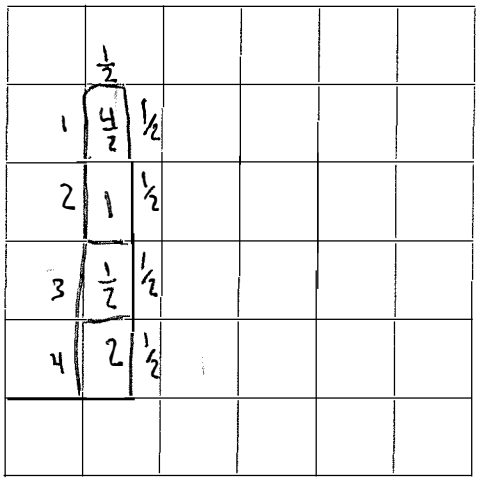
Area-Multiplication



$4 \times 3 = 12$

12 square units

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



$\frac{1}{2} \rightarrow$ 4 times

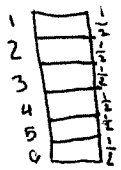
$4 \times \frac{1}{2} = \frac{4}{2}$

2

Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

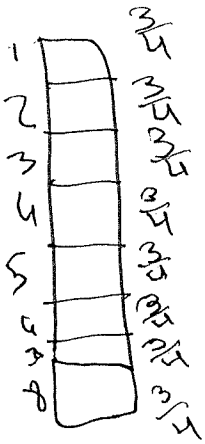


$6 \times \frac{1}{2} = \frac{6}{2} = 3$

b. 5 by $\frac{4}{5}$

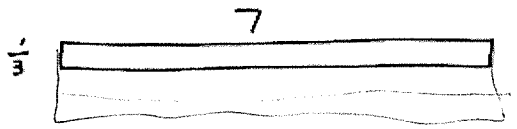
$5 \times \frac{4}{5} = \frac{20}{5} = 4$

c. $\frac{3}{4}$ by 8



$8 \times \frac{3}{4} = \frac{24}{4}$

2) Use the area model to answer the questions that follow.

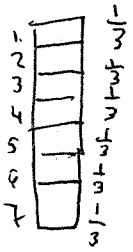


a. What expression can be used to find the area of the rectangle show?

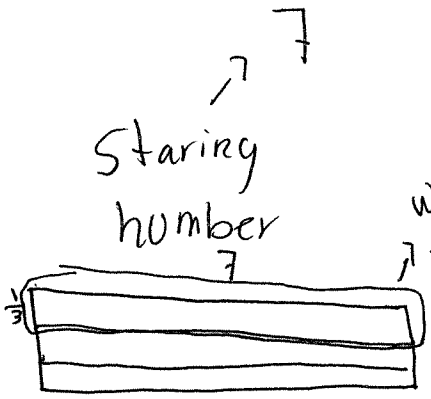
$7 \times \frac{1}{3}$

b. Find the area of the rectangle.

$7 \times \frac{1}{3} = \frac{7}{3} = 2\frac{1}{3}$



c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?



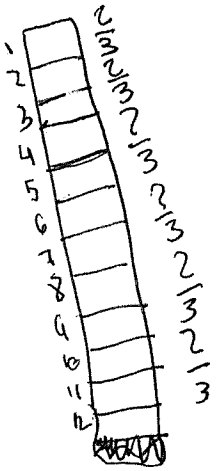
$7 \times \frac{1}{3} = \frac{7}{3} \rightarrow 2\frac{1}{3}$

Convert

1 ↓ Fraction less then one

1 ↓ Smaller

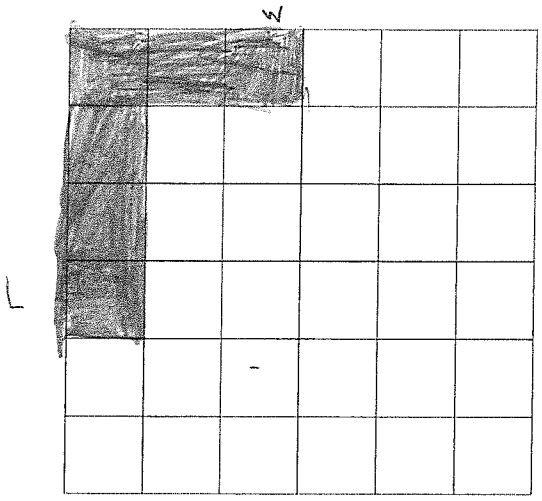
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



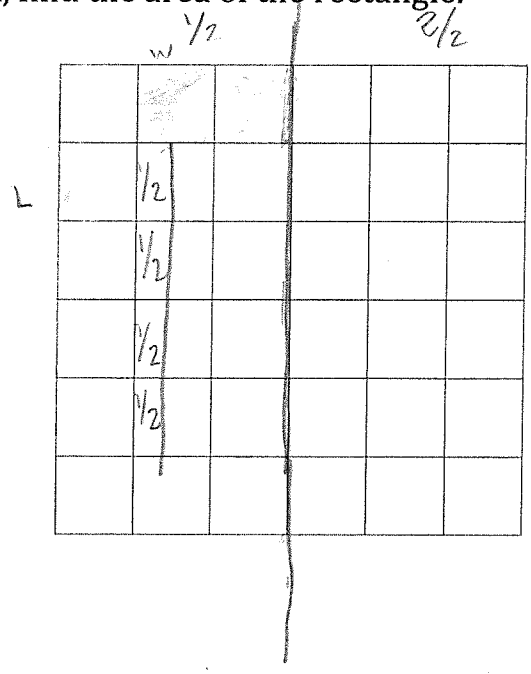
$12 \times \frac{2}{3} = \frac{24}{3} = 8$

Name: Erick Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



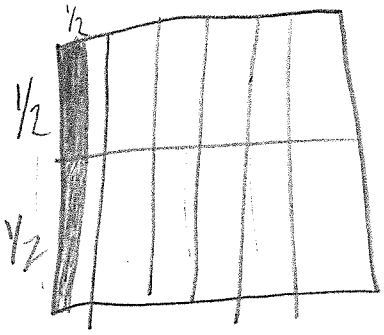
Name Erick Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

☆ a. $\frac{1}{2}$ by 6

6 ÷ 2 = 3

? = 3

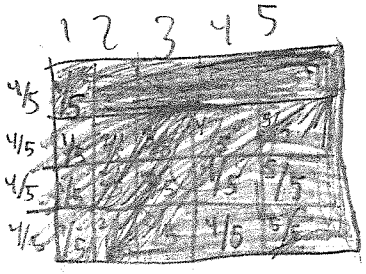


3

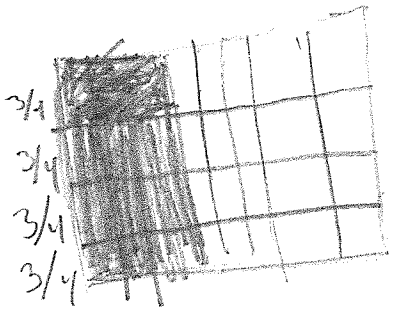
Scaling Down

☆ b. 5 by $\frac{4}{5}$

? =



c. $\frac{3}{4}$ by 8



2) Use the area model to answer the questions that follow.

a. What expression can be used to find the area of the rectangle show?

b. Find the area of the rectangle.

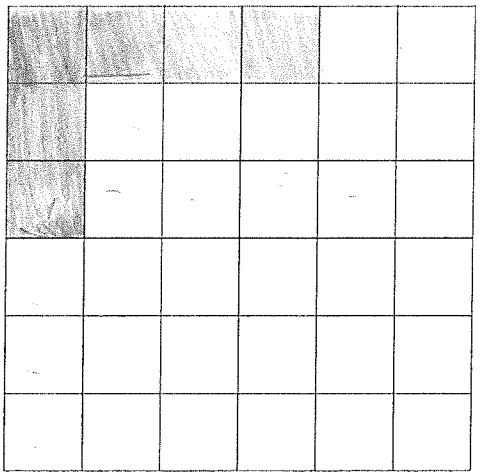
c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

Name: Eliana Problem-Solving Task

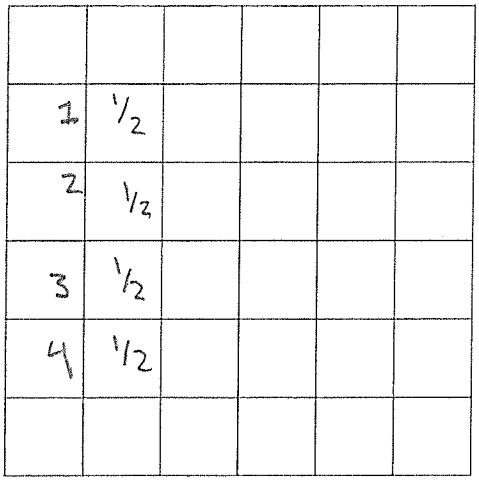
A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.

3×4=12 square units



B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

1/2

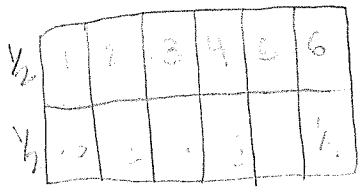


Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

$\frac{1}{2} \times 6$

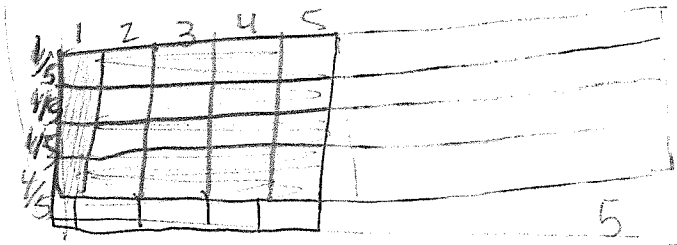


3 wholes

b. 5 by $\frac{4}{5}$

5

4



4/5 | $\frac{4}{5} \times 5 = \frac{20}{5}$

$\frac{20}{5} \div \frac{5}{5} = \frac{4}{1}$

c. $\frac{3}{4}$ by 8

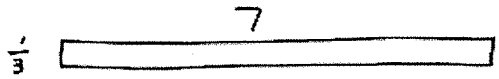
2

3/4 | $\frac{3}{4} \times 8 = \frac{24}{4}$

$\frac{24}{4} \div \frac{2}{2} = \frac{12}{2} \div \frac{2}{2} = \frac{6}{1}$

6

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

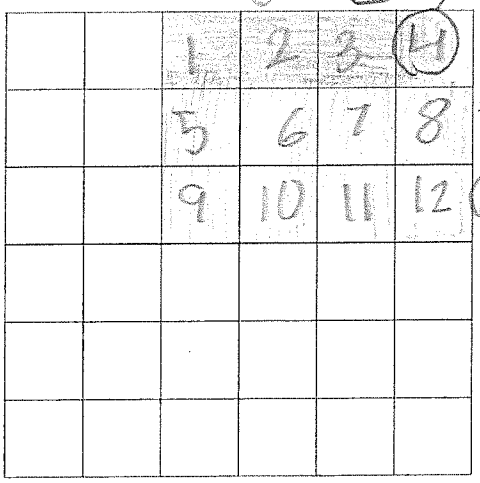
b. Find the area of the rectangle.

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

Name: Abisai Problem-Solving Task

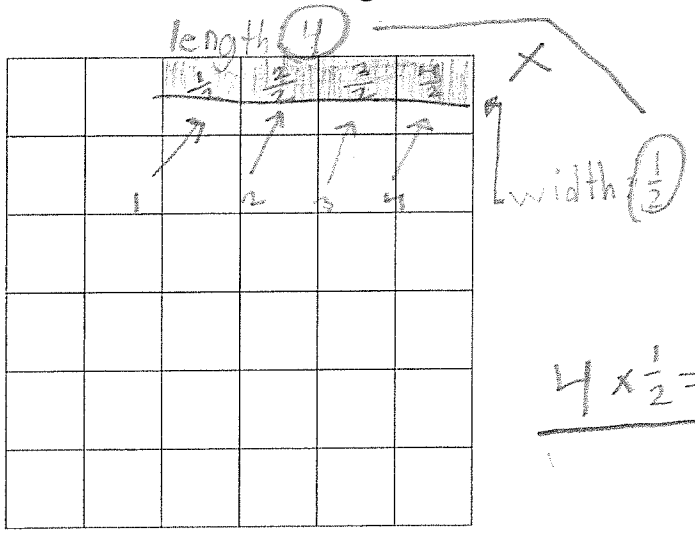
A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



The Area: 12

4 x 3 = 12

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



The Area: 2

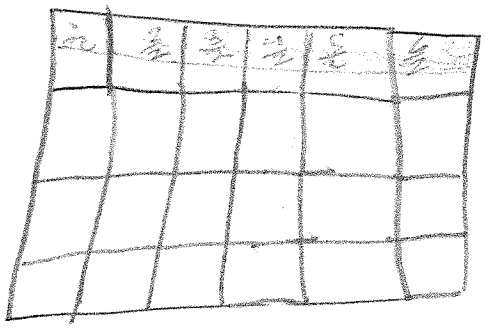
$4 \times \frac{1}{2} = \frac{4}{2} = 2$

Name _____ Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6

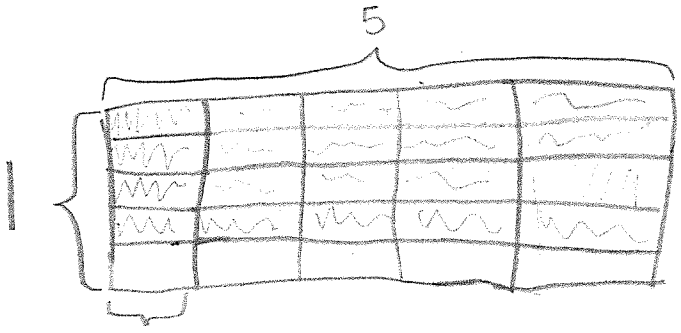
$\frac{1}{2} \times 6 = ?$



$? = 3$ or $\frac{6}{2}$

b. 5 by $\frac{4}{5}$

$5 \times \frac{4}{5} = ?$

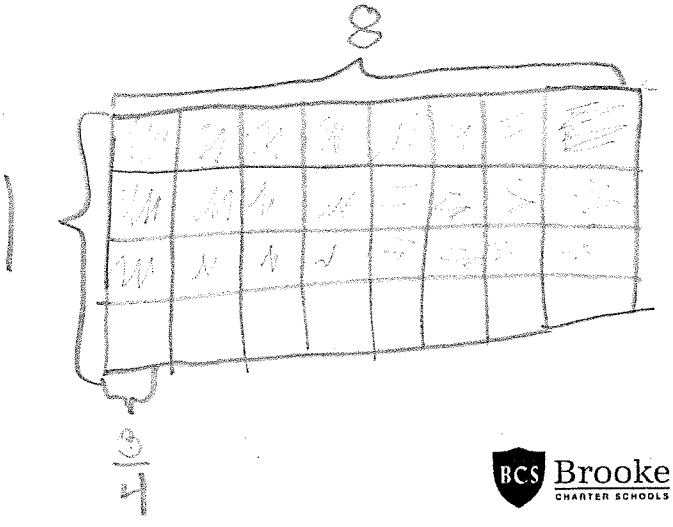


$? = \frac{20}{5}$ or 4

$5 \times \frac{4}{5} = \frac{20}{5}$

c. $\frac{3}{4}$ by 8

$\frac{3}{4} \times 8 = ?$



$? = 6$ or $\frac{24}{4}$

$\frac{3}{4} \times 8 = 6$ or $\frac{24}{4}$

$24 \div 4 =$

2) Use the area model to answer the questions that follow.

a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3} = ?$

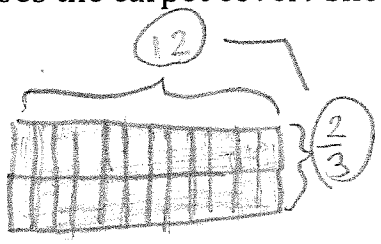
b. Find the area of the rectangle.

$\frac{7}{3}$ or $2\frac{1}{3}$

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

$7 \times \frac{1}{3}$ will scale down because we are taking a third by 7 because we are dividing

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

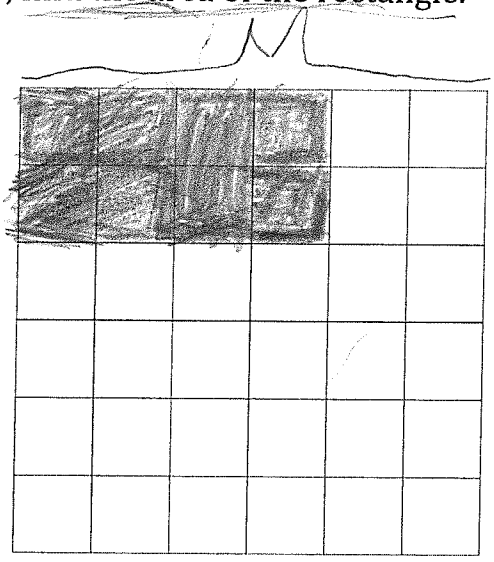


$12 \times 2 = 24 \div 3 = 8$

8 units

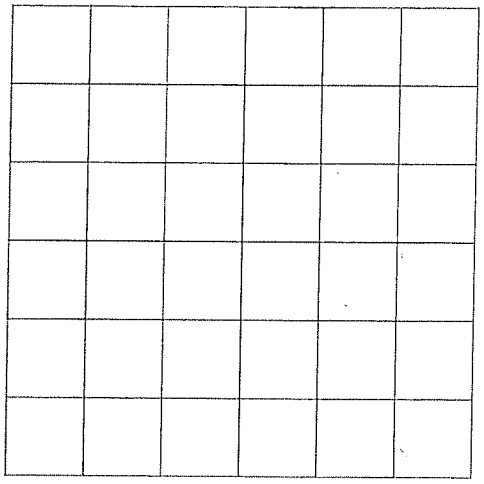
Name: _____ Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



4X3=12

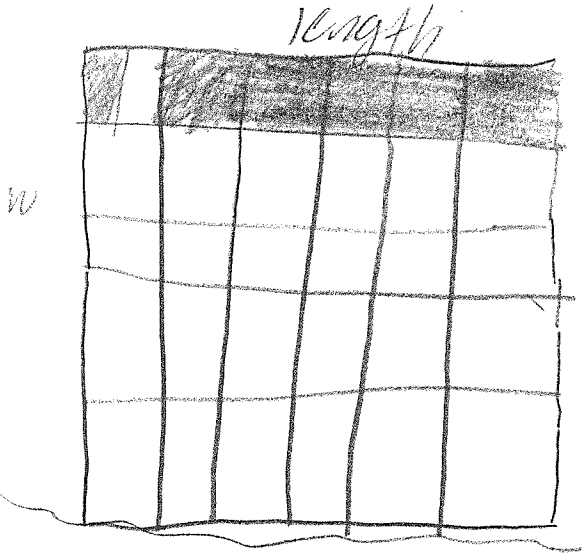
B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



Name _____ Application Problems:

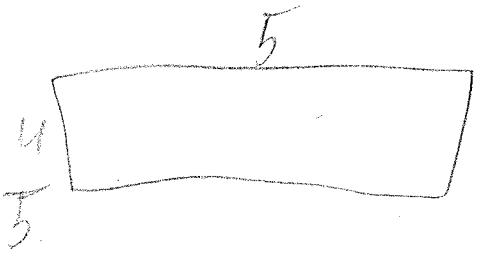
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



$6 \div \frac{1}{2} = 3$

b. 5 by $\frac{4}{5}$

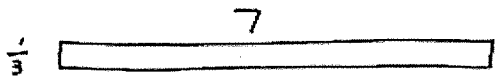


5 x 4 = 20
20 sq units

c. $\frac{3}{4}$ by 8

$8 \times \frac{3}{4} = 6$ sq units

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

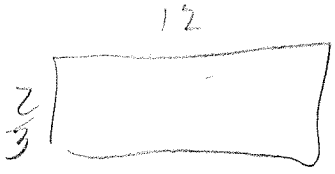
7 x 1/3

b. Find the area of the rectangle.

7 x 1/3 = 2 1/3

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

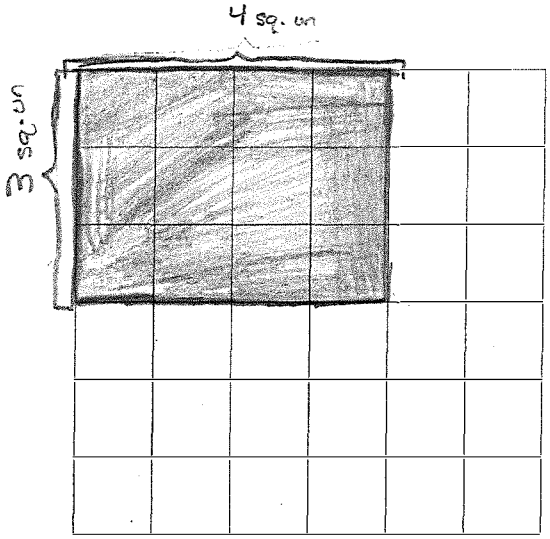
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



12 x 2/3 = 8 sq units

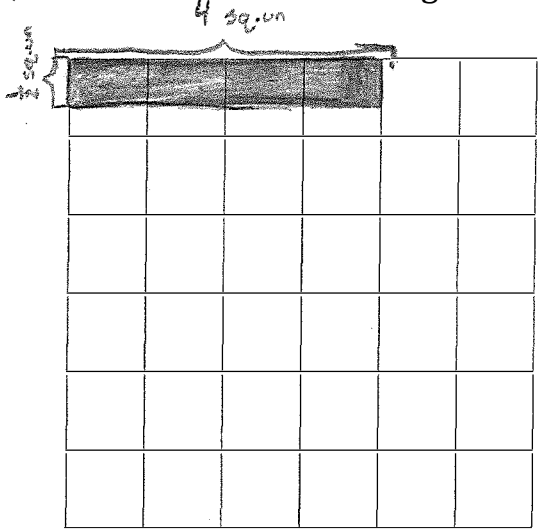
Name: Daniel N. ~~XXXXXX~~ Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



$4 \times 3 =$ 12 sq. un

B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.

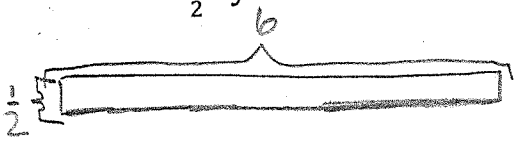


$4 \times \frac{1}{2} =$ 2 sq. un

Name _____ Application Problems:

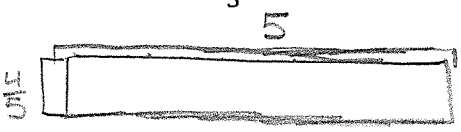
1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

a. $\frac{1}{2}$ by 6



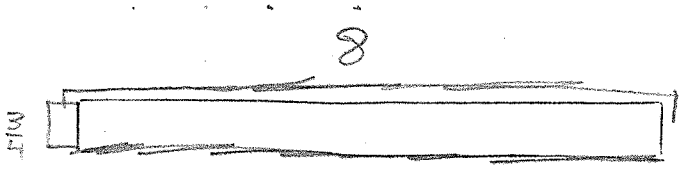
$6 \times \frac{1}{2} =$ 3 sq. un

b. 5 by $\frac{4}{5}$



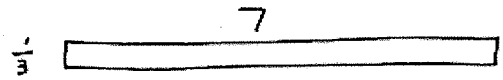
$5 \times \frac{4}{5} =$ 4 sq. un

c. $\frac{3}{4}$ by 8



$8 \times \frac{3}{4} =$ 6 sq. un

2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3}$

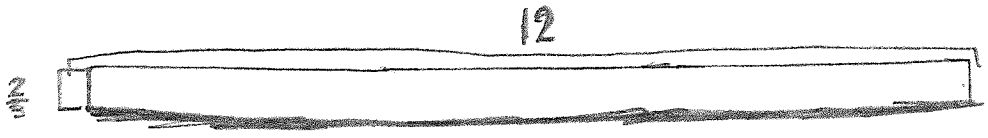
b. Find the area of the rectangle.

$7 \times \frac{1}{3} = 2\frac{1}{3}$ sq. un

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

7 will be scaled down with $\frac{1}{3}$ because $(7 \times 1/3) \times 3 = 7$, we are spliting 1 into 3 pieces

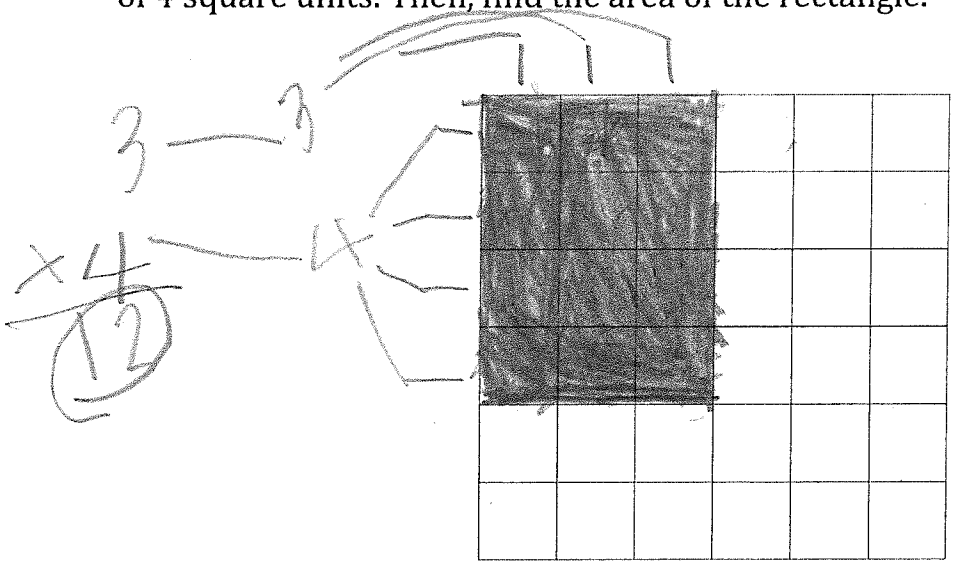
3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.



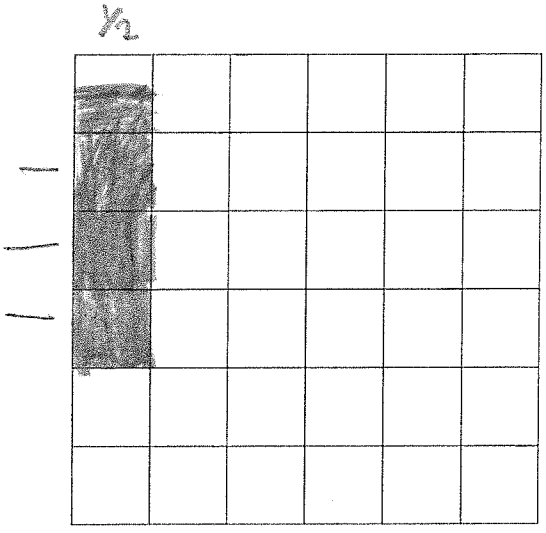
$12 \times \frac{2}{3} = 8$ sq. un

Name: Gino Problem-Solving Task

A. Use the grid below to model a rectangle with a width of 3 square units and a length of 4 square units. Then, find the area of the rectangle.



B. Use the grid below to model a rectangle with a width of $\frac{1}{2}$ square unit and a length of 4 square units. Then, find the area of the rectangle.



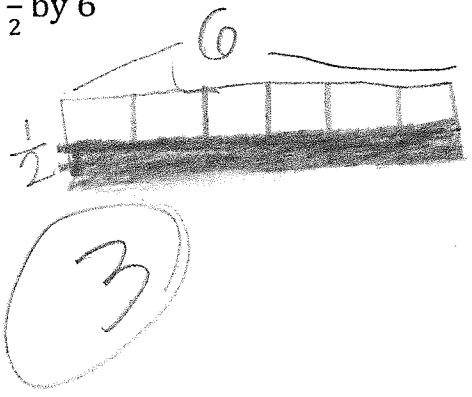
$3 \times \frac{1}{2} = \frac{3}{1} \times \frac{1}{2}$

$= 1\frac{1}{2}$ or $1\frac{1}{2}$

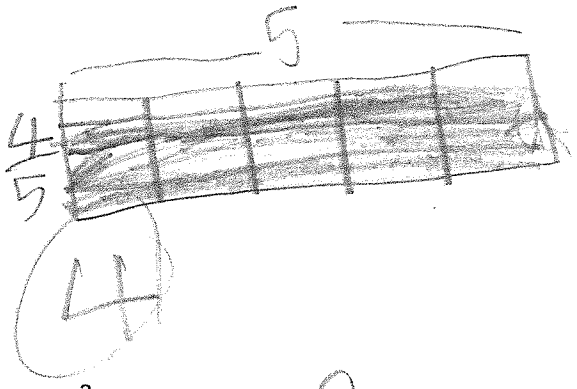
Name Gino Application Problems:

1) Find the area of each rectangle using an area model. The dimensions are given below. You may either sketch your model or use the grid paper provided.

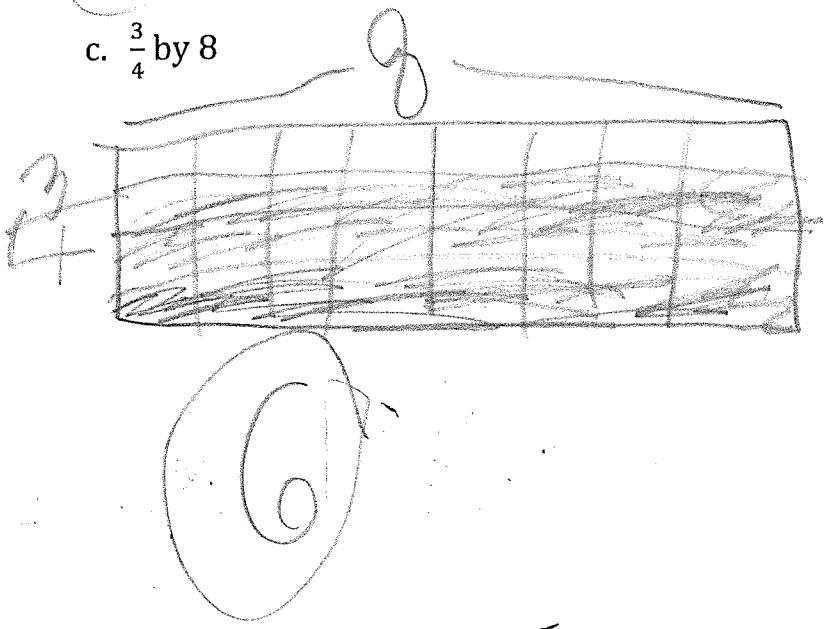
a. $\frac{1}{2}$ by 6



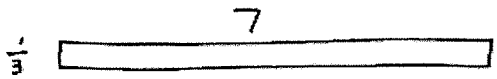
b. 5 by $\frac{4}{5}$



c. $\frac{3}{4}$ by 8



2) Use the area model to answer the questions that follow.



a. What expression can be used to find the area of the rectangle show?

$7 \times \frac{1}{3}$

b. Find the area of the rectangle.

$7 \times \frac{1}{3} = \frac{7}{3}$ or $2\frac{1}{3}$

c. How does the area model prove that multiplying by a fraction less than one scales the other factor down?

it proves that multiplying by a number less than one would get us at lower number because it's less than one

3) A rectangular carpet has a length of 12 yards and a width of $\frac{2}{3}$ yard. How many square yards does the carpet cover? Show or explain your thinking below.

8