

MSP

Grade 4 Module 7

Lesson Refreshers

&

Homework Starters

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete the tables.

Yards	Feet
1	
2	
3	
5	
10	

Feet	Inches
1	
2	
5	
10	
15	

Yards	Inches
1	
3	
6	
10	
12	

2. Solve.

a. 2 yards 2 inches = \_\_\_\_\_ inches

b. 9 yards 10 inches = \_\_\_\_\_ inches

c. 4 yards 2 feet = \_\_\_\_\_ feet

d. 13 yards 1 foot = \_\_\_\_\_ feet

e. 17 feet 2 inches = \_\_\_\_\_ inches

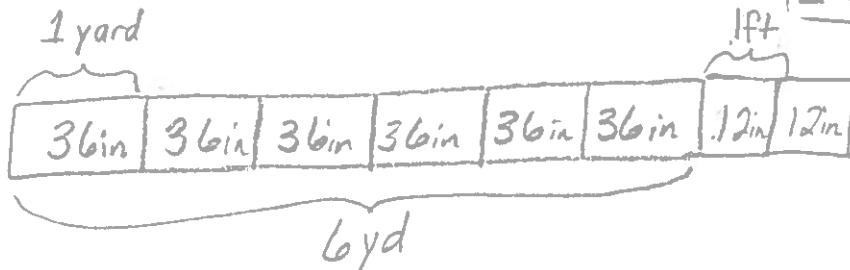
f. 11 yards 1 foot = \_\_\_\_\_ feet

g. 15 yards 2 feet = \_\_\_\_\_ feet

h. 5 yards 2 feet = \_\_\_\_\_ inches

3. Ally has a piece of string that is 6 yards 2 feet long. How many inches of string does she have?

Remember: 1 yd = 36 inches  
1 foot = 12 inches



$$\begin{array}{r} 3 \\ 36 \\ \times 6 \\ \hline 216 \text{ in} \end{array} \quad + \quad \begin{array}{r} 12 \\ \times 2 \\ \hline 24 \text{ in} \end{array}$$

$$\begin{array}{r} 216 \\ + 24 \\ \hline 240 \text{ inches} \end{array}$$

Ally has 240 inches of string.

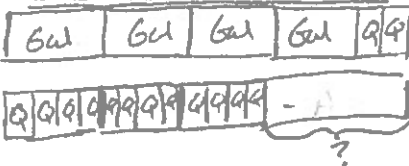
Name \_\_\_\_\_

Date \_\_\_\_\_

Use the RDW process to solve Problems 1–3.

1. Dawn needs to pour 3 gallons of water into her fish tank. She only has a 1-cup measuring cup. How many cups of water should she put in the tank?

2. Julia has 4 gallons 2 quarts of water. Ally needs the same amount of water but only has 12 quarts. How much more water does Ally need?



Julia:  $4 \text{ gal } 2 \text{ qt} = 16 \text{ qt.} + 2 \text{ qt.} = 18 \text{ qts.}$

Ally:  $12 \text{ qts.}$

$$\begin{array}{r} 18 \\ -12 \\ \hline 6 \text{ qts.} \end{array}$$

Ally needs 6 more quarts of water.

3. Sean drank 2 liters of water today, which was 280 milliliters more than he drank yesterday. How much water did he drink yesterday?

4. Complete the tables.

a.

Gallons	Quarts
1	4
2	8
4	16
12	48
15	60

b.

Quarts	Pints
1	2
2	4
6	12
10	20
16	32

• After reading the problem, draw a picture of what you know.

• Convert Julia's gallons and quarts to just quarts so you can compare.

• Find the difference between Julia's amount and Ally's amount.

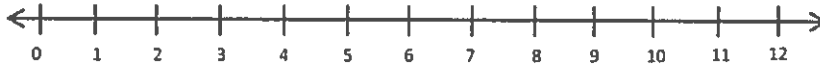
• This will tell you how much more water Ally needs to have the same amount as Julia

Name \_\_\_\_\_

Date \_\_\_\_\_

Use RDW to solve Problems 1–2.

1. Jeffrey practiced his drums from 4:00 p.m. until 7:00 p.m. How many minutes did he practice? Use the number line to show your work.



2. Isla used her computer for 5 hours over the weekend. How many minutes did she spend on the computer?

3. Complete the following conversion tables and write the rule under each table.

Hours	Minutes
1	60
2	120
5	300
9	540
12	720

Days	Hours
1	24
3	72
6	144
8	192
20	480

\* multiply the hours by 60 because there are 60 minutes in one hour.


\* multiply days by 24 because there are 24 hours in 1 day

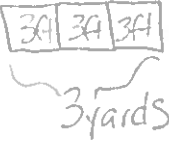
The rule for converting hours to minutes is

The rule for converting days to hours is

60 minutes × hours.      24 hours × days.  
 \* use your best method to multiply.

4. Hudson has a chain that is 1 yard in length. Myah's chain is 3 times as long. How many feet of chain do they have in all?

Hudson  <sup>Word</sup>

Myah   $3 \times 3 = 9 \text{ feet}$

$3 + 9 = 12 \text{ feet}$

They have 12 feet of chain in all.

1 yard = 3 feet

- Hudson has 3ft of chain and Myah has 9ft of chain
- So you have to add both amounts to get the answer

D. Calabrese

5. A box weighs 8 ounces. A shipment of boxes weighs 7 pounds. How many boxes are in the shipment?

6. Tracy's rain barrel has a capacity of 27 quarts of water. Beth's rain barrel has a capacity of twice the amount of water as Tracy's rain barrel. Trevor's rain barrel can hold 9 quarts of water less than Beth's barrel.

a. What is the capacity of Trevor's rain barrel?

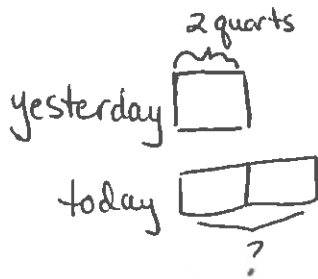
b. If Tracy, Beth, and Trevor's rain barrels were filled to capacity and they poured all of the water into a 30-gallon bucket, would there be enough room?

Name \_\_\_\_\_

Date \_\_\_\_\_

Draw a tape diagram to solve the following problems.

1. Timmy drank 2 quarts of water yesterday. He drank twice as much water today as he drank yesterday. How many cups of water did Timmy drink in the two days?



$$2 \times 2q = 4 \text{ quarts}$$

$$2 \text{ quarts} + 4 \text{ quarts} = 6 \text{ quarts}$$

$$4 \times 6 \text{ quarts} = 24 \text{ cups}$$

$$\bullet 4 \text{ cups} = 1 \text{ quart}$$

2. Lisa recorded a 2-hour television show. When she watched it, she skipped the commercials. It took her 84 minutes to watch the show. How many minutes did she save by skipping the commercials?

3. Jason bought 2 pounds of cashews. Sarah ate 9 ounces. David ate 2 ounces more than Sarah. How many ounces were left in Jason's bag of cashews?

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Determine the following sums and differences. Show your work.

a.  $5 \text{ qt} + 3 \text{ qt} = \underline{\hspace{2cm}}$  gal

b.  $1 \text{ gal } 2 \text{ qt} + 2 \text{ qt} = \underline{\hspace{2cm}}$  gal

c.  $1 \text{ gal} - 3 \text{ qt} = \underline{\hspace{2cm}}$  qt

d.  $3 \text{ gal} - 2 \text{ qt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  qt

e.  $1 \text{ c} + 3 \text{ c} = \underline{\hspace{2cm}}$  qt

f.  $2 \text{ qt } 3 \text{ c} + 5 \text{ c} = \underline{\hspace{2cm}}$  qt

g.  $1 \text{ qt} - 1 \text{ pt} = \underline{\hspace{2cm}}$  pt

h.  $6 \text{ qt} - 5 \text{ pt} = \underline{\hspace{2cm}}$  qt  $\underline{\hspace{2cm}}$  pt

2. Find the following sums and differences. Show your work.

a.  $4 \text{ gal } 2 \text{ qt} + 3 \text{ qt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  qt

b.  $12 \text{ gal } 2 \text{ qt} + 5 \text{ gal } 3 \text{ qt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  qt

c.  $7 \text{ gal } 2 \text{ pt} - 3 \text{ pt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  pt

d.  $11 \text{ gal } 3 \text{ pt} - 4 \text{ gal } 6 \text{ pt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  pt

e.  $12 \text{ qt } 5 \text{ c} + 6 \text{ c} = \underline{14} \text{ qt } \underline{3} \text{ c}$

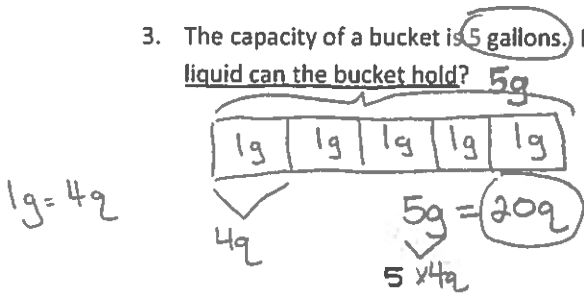
f.  $8 \text{ gal } 6 \text{ pt} + 5 \text{ gal } 4 \text{ pt} = \underline{\hspace{2cm}}$  gal  $\underline{\hspace{2cm}}$  pt

Remember  
4c = 1q

$$\begin{array}{r} 12 \\ + 1 \\ \hline 14q \end{array} \quad \begin{array}{r} 5 \\ + 1 \\ \hline 6c \\ \hline 3c \end{array}$$

Josh Cooke

3. The capacity of a bucket is 5 gallons. Right now, it contains 3 gallons 2 quarts of liquid. How much more liquid can the bucket hold?



Handwritten calculations for problem 3:

- $3g = 12q$
- $12q + 2q = 14q$  (with 14q circled)
- $3g \times 4$
- $20q - 14q = 6q$  (with 6q underlined)
- The text: "The bucket can hold 6 quarts more"

4. Grace and Joyce follow the recipe in the table to make a homemade bubble solution.
- a. How much solution does the recipe make?

Homemade Bubble Solution	
Ingredient	Amount
Water	2 gallons 3 pints
Dish Soap	2 quarts 1 cup
Corn Syrup	2 cups

- b. How many more cups of solution would they need to fill a 4-gallon container?

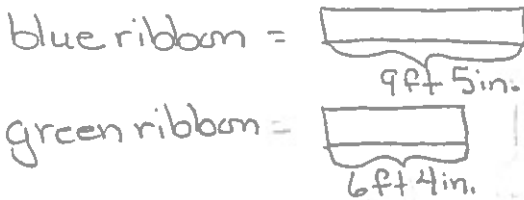
Remember  
4 quarts = 1 gallon



g.  $32\text{ ft } 3\text{ in} - 7\text{ in} = \underline{\hspace{1cm}}\text{ ft } \underline{\hspace{1cm}}\text{ in}$

h.  $8\text{ ft } 2\text{ in} - 3\text{ ft } 11\text{ in} = \underline{\hspace{1cm}}\text{ ft } \underline{\hspace{1cm}}\text{ in}$

3. Laurie bought 9 feet 5 inches of blue ribbon. She also bought 6 feet 4 inches of green ribbon. How much ribbon did she buy altogether? Laurie bought 15ft. 9in. of ribbon altogether.



$$\begin{array}{r} 9\text{ft. } 5\text{in.} \\ + 6\text{ft. } 4\text{in.} \\ \hline 15\text{ft. } 9\text{in.} \end{array}$$

• Use a tape diagram to show each length of ribbon.  
• Line up the feet and inches and then add.

4. The length of the room is 11 feet 6 inches. The width of the room is 2 feet 9 inches shorter than the length. What is the width of the room?

5. Tim's bedroom is 12 feet 6 inches wide. The perimeter of the rectangular shaped bedroom is 50 feet.  
a. What is the length of Tim's bedroom?

- b. How much longer is the length of Tim's room than the width?

M. Clark

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Determine the following sums and differences. Show your work.

Remember: 1 lb. = 16 oz

Start by converting to the smaller unit.

a. 11 oz + 5 oz = \_\_\_\_\_ lb

11 oz + 5 oz = 16 oz

16 oz = 1 lb

b. 1 lb 7 oz + 9 oz = \_\_\_\_\_ lb

↓

16 oz. + 7 oz + 9 oz = 32 oz.

32 oz = 2 lb (2 x 16 = 32)

c. 1 lb - 11 oz = \_\_\_\_\_ oz

↓

16 oz - 11 oz = 5 oz.

d. 12 lb - 8 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz

e. 5 lb 8 oz + 9 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz

f. 21 lb 8 oz + 6 lb 9 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz

g. 23 lb 1 oz - 15 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz

h. 89 lb 2 oz - 16 lb 4 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz

2. When Dick took his dog, Rocky, to the vet in December, Rocky weighed 29 pounds 9 ounces. When he took Rocky back to the vet in March, Rocky weighed 34 pounds 4 ounces. How much weight did Rocky gain?

3. Bianca had 6 identical jars of bubble bath. She put them all in a bag that weighed 2 ounces. The total weight of the bag filled with the six jars was 1 pound 4 ounces. How much did each jar weigh?

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Determine the following sums and differences. Show your work.

a.  $41 \text{ min} + 19 \text{ min} = \underline{\hspace{1cm}} \text{ hr}$

b.  $2 \text{ hr } 21 \text{ min} + 39 \text{ min} = \underline{\hspace{1cm}} \text{ hr}$

Commented [RR2]:

c.  $1 \text{ hr} - 33 \text{ min} = \underline{\hspace{1cm}} \text{ min}$

d.  $3 \text{ hr} - 33 \text{ min} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min}$

e.  $31 \text{ sec} + 29 \text{ sec} = \underline{\hspace{1cm}} \text{ min}$

f.  $5 \text{ min} - 15 \text{ sec} = \underline{\hspace{1cm}} \text{ min } \underline{\hspace{1cm}} \text{ sec}$

2. Find the following sums and differences. Show your work.

a.  $5 \text{ hr } 30 \text{ min} + 35 \text{ min} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min}$

b.  $3 \text{ hr } 15 \text{ min} + 5 \text{ hr } 55 \text{ min} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min}$

c.  $4 \text{ hr } 4 \text{ min} - 38 \text{ min} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min}$

d.  $7 \text{ hr } 3 \text{ min} - 4 \text{ hr } 25 \text{ min} = \underline{\hspace{1cm}} \text{ hr } \underline{\hspace{1cm}} \text{ min}$

e.  $3 \text{ min } 20 \text{ sec} + 49 \text{ sec} = \underline{4} \text{ min } \underline{9} \text{ sec}$

$$\begin{array}{r} 3 \text{ min} \\ 20 \\ + 49 \\ \hline 69 \text{ sec} \end{array}$$

$$\begin{array}{r} 3 + 1 = 4 \\ \text{Combine} \\ \text{the} \\ \text{minutes} \\ \hline 1 \text{ min} \\ (60 \text{ sec.}) \end{array}$$

$$\begin{array}{r} 69 \text{ sec} \\ 60 + \text{---} = 69 \\ \hline 9 \text{ sec} \end{array}$$

f.  $22 \text{ min } 37 \text{ sec} - 5 \text{ min } 58 \text{ sec} = \underline{\hspace{1cm}} \text{ min } \underline{\hspace{1cm}} \text{ sec}$

$$\begin{array}{r} 21 \text{ min } 97 \text{ sec} \\ - 5 \text{ min } 58 \text{ sec} \\ \hline \end{array}$$

(22 min  $\rightarrow$  convert to 21 min and add 60 sec to the 37 sec. to get a total of 97 sec in order to subtract the 5 min 58 sec.)

subtract min.:

$21 \text{ min} - 5 \text{ min} = 14 \text{ min}$

subtract sec.:

$97 \text{ sec} - 58 \text{ sec} = 39$

Answer: 14 min. 39 sec.

$$\begin{array}{r} 8 \ 17 \\ 9 \ 7 \\ - 5 \ 8 \\ \hline 3 \ 9 \end{array}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Use RDW to solve the following problems.

1. On Saturday, Jeff used 2 quarts 1 cup of water from a full gallon to replace some water that leaked from his fish tank. On Sunday, he used 3 pints of water from the same gallon. How much water was left in the gallon after Sunday?

2. To make punch, Julia poured 1 quart 8 ounces of ginger ale into a bowl and then added twice as much fruit juice. How much punch did she make in all?

3. Patti went swimming for 1 hour 15 minutes on Monday. On Tuesday, she swam twice as long as she swam on Monday. On Wednesday, she swam 50 minutes less than the time she swam on Tuesday. How much time did she spend swimming during that three day period?

*Benton*

Monday 

60 min	15 min		
--------	--------	--	--

 = 1 Hr. 15 Min = 75 min

Tuesday 

60 min	60 min	15 min	15 min
--------	--------	--------	--------

 75 min x 2 = 150 min = 2 Hr. 30 min

Wednesday 

60 min	40 min
--------	--------

 150 min - 50 = 100 min = 1 Hr. 40 min

100  
150  
+ 75  
-----  
325 min.

325 min  
60 | 60 | 60 | 60 | 25

325 min = 5 Hr. 25 min.

- Read the problem carefully
- Use the conversion fact to determine how many minutes Patti spent swimming each day.
- Add them all to find the total time spent swimming.
- Convert answer to hours and minutes.

Patti spent 5 Hours 25 Minutes swimming during that 3 day period.

Name \_\_\_\_\_

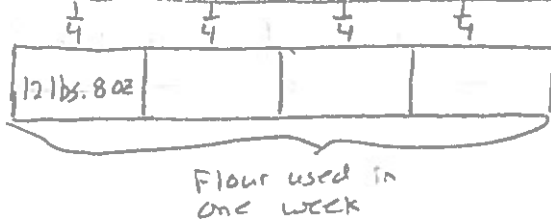
Date \_\_\_\_\_

Use RDW to solve the following problems.

1. Ashley ran a marathon and finished 1 hour, 40 minutes after P.J., who had a time of 2 hours and 15 minutes. Kerry finished 12 minutes before Ashley. How long did it take Kerry to run the marathon?

2. Mr. Foote's deck is 12 ft 6 in wide. Its length is twice the width plus 3 more inches. How long is the deck?

3. Mrs. Lorentz bought 12 pounds 8 ounces of flour. This is  $\frac{1}{4}$  of the flour she will use to make sugar cookies in her bakery this week. If she uses 5 ounces of flour for each batch of sugar cookies, how many batches of sugar cookies will she make in a week?



Conversion 1 lb = 16 oz

$$12 \text{ lbs } 8 \text{ oz} = 192 \text{ oz}$$

$$\begin{array}{r} 16 \\ \times 12 \\ \hline 32 \\ + 160 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 200 \\ \times 4 \\ \hline 800 \end{array}$$

800 oz. of flour used in one week.

$$\begin{array}{r} 160 \\ 5 \overline{) 800} \\ \underline{-50} \phantom{0} \\ 30 \phantom{0} \\ \underline{-30} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

- Read the problem carefully.
- Draw a picture of what you know.
- Determine how much flour is used in one week.
- Divide that amount by 5 which will give you how many batches.
- Always check your work.
- Write your answer as a statement.

Mrs. Lorentz will make 160 batches of sugar cookies in a week.

4. Beth Ann practiced piano for 1 hour, 5 minutes each day for 1 week. She had 5 songs to practice and spent the same amount of time practicing each song. How long did she practice each song during the week?

5. The concession stand has 18 gallons of punch. If there are a total of 240 students who want to purchase 1 cup of punch each, will there be enough punch for everyone?

*J. Denton*

5. Solve.

<p>a. <math>2\frac{2}{3}</math> yd = <u>8</u> ft</p> <p>6ft 2ft</p>	<p>b. <math>3\frac{1}{3}</math> yd = <u>10</u> ft</p> <p>9ft 1ft</p>
<p>c. <math>3\frac{1}{2}</math> gal = <u>14</u> qt</p> <p>12qt 2qts</p>	<p>d. <math>5\frac{1}{4}</math> gal = <u>21</u> qt</p> <p>20qts 1qt</p>
<p>e. <math>6\frac{1}{4}</math> ft = <u>75</u> in</p> <p>72in 3in</p>	<p>f. <math>7\frac{1}{3}</math> ft = <u>88</u> in</p> <p>84in 4in</p>
<p>g. <math>3\frac{1}{2}</math> ft = <u>30</u> in</p> <p>24in 6in</p>	<p>h. <math>5\frac{3}{4}</math> ft = <u>69</u> in</p> <p>60in 9in</p>
<p>i. <math>9\frac{2}{3}</math> ft = <u>116</u> in</p> <p>108in 8in</p>	<p>j. <math>7\frac{5}{6}</math> ft = <u>94</u> in</p> <p>84in 10in</p>

- important conversions
- 3 feet = 1 yd
  - 4 quarts = 1 gallon
  - 12 inches = 1 foot

Use number bonds to decompose to solve

see the conversion to multiply

use number lines to find partial conversions

Beginners

5. Solve.

<p>a. <math>2\frac{1}{4}</math> pounds = <u>36</u> ounces</p> <p><math>\frac{16}{32}</math></p> <p>32 lb   4 lb</p> <p></p>	<p>b. <math>4\frac{7}{8}</math> pounds = _____ ounces</p>
<p>c. <math>6\frac{3}{4}</math> lb = <u>108</u> oz</p> <p><math>\frac{16}{96}</math></p> <p>96 lb</p> <p></p>	<p>d. <math>4\frac{1}{8}</math> lb = _____ oz</p>
<p>e. <math>1\frac{3}{4}</math> hours = <u>105</u> minutes</p> <p><math>\frac{60}{45}</math></p> <p></p>	<p>f. <math>4\frac{1}{2}</math> hours = _____ minutes</p>
<p>g. <math>3\frac{3}{4}</math> hr = <u>225</u> min</p> <p><math>\frac{60}{180}</math></p> <p>180 min   45 min</p> <p></p>	<p>h. <math>5\frac{1}{3}</math> hr = _____ min</p>
<p>i. <math>4\frac{2}{3}</math> yards = <u>14</u> feet</p> <p><math>\frac{3}{12}</math></p> <p>12 ft   2 ft</p> <p></p>	<p>j. <math>6\frac{1}{3}</math> yd = _____ ft</p>
<p>k. <math>4\frac{1}{4}</math> gallons = <u>17</u> quarts</p> <p><math>\frac{1}{16}</math></p> <p>16 qt   1 qt</p> <p></p>	<p>l. <math>2\frac{3}{4}</math> gal = _____ qt</p>
<p>m. <math>6\frac{1}{4}</math> feet = <u>75</u> inches</p> <p><math>\frac{12}{72}</math></p> <p>72 in   3 in</p> <p></p>	<p>n. <math>9\frac{5}{6}</math> ft = _____ in</p>

important conversions

• 1 pound = 16 oz

• 60 minutes = 1 hour

• 3 feet = 1 yard

• 4 quart = 1 gallon

12 inches = 1 ft

• See conversions to multiply

use tape diagrams to find partial conversions

4. The candy shop puts 10 ounces of gummy bears in each box. How many boxes do they need to fill if there are  $21\frac{1}{4}$  pounds of gummy bears?

5. Mom can make 10 brownies from a 12 ounce package.

- a. How many ounces of brownie mix would be needed to make 50 brownies?

10 brownies

12oz

12oz 12oz 12oz 12oz 12oz

50 brownies

$$5 \times 12 \text{ ounces} = 60 \text{ ounces}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

60 ounces are needed to make 50 brownies.

Bonus: The brownie mix is also sold in  $1\frac{1}{2}$  pound bags. How many bags would be needed to make 120 brownies?

$1\frac{1}{2}$  pounds

$$16\text{oz} + 8\text{oz} = 24\text{ ounces}$$

12oz (10 brownies) 12oz (10 brownies)

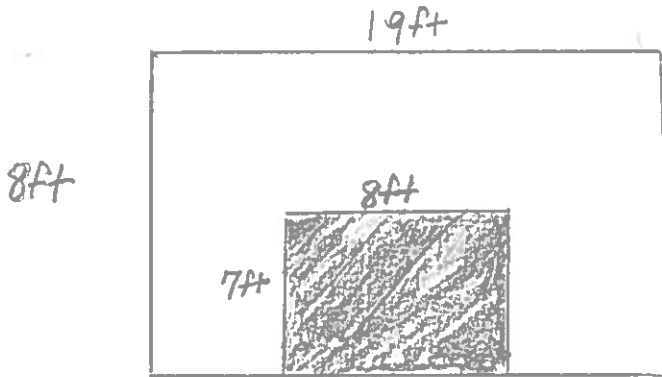
1 bag  
24oz  
20 brownies

24 48 72 96 120  
20 40 60 80 100 120 brownies

To make 120 brownies you will need 6 bags of mix



3. A wall is 8 feet tall and 19 feet wide. An opening 7 feet tall and 8 feet wide was cut into the wall for a doorway. Find the area of the remaining portion of the wall.



The area of the wall is  
 $8\text{ft} \times 19\text{ft} = 152\text{ft}^2$

The area of the opening is  
 $7\text{ft} \times 8\text{ft} = 56\text{ft}^2$

The area of the remaining portion is  $152\text{ft}^2 - 56\text{ft}^2 = 96\text{ft}^2$

Hint: Subtract smaller rectangle from larger rectangle

3. A wall is 8 feet tall and 19 feet wide. An opening 7 feet tall and 8 feet wide was cut into the wall for a doorway. Find the area of the remaining portion of the wall.

Name \_\_\_\_\_

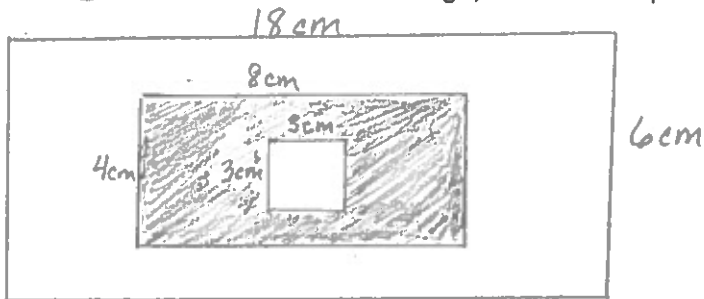
Date \_\_\_\_\_

For homework, complete the top portion of each page. This will become an answer key for you to refer to when completing the bottom portion as a mini-personal board activity during the summer.

Use a ruler and protractor to create and shade a figure according to the directions. Then find the area of the unshaded part of the figure.

1. Draw a rectangle that is 18 cm long and 6 cm wide. Inside the rectangle, draw a smaller rectangle that is 8 cm long and 4 cm wide. Inside the smaller rectangle, draw a square that has a side length of 3 cm. Shade in the smaller rectangle, but leave the square unshaded. Find the area of the shaded space.

NOT  
DRAWN  
TO  
SCALE 😊



The area of the smaller rectangle is  $8\text{cm} \times 4\text{cm} = 32\text{cm}^2$

Now subtract the area of the square  $3\text{cm} \times 3\text{cm} = 9\text{cm}^2$

Therefore

$$(8\text{cm} \times 4\text{cm}) - (3\text{cm} \times 3\text{cm}) = 32\text{cm}^2 - 9\text{cm}^2 = 23\text{cm}^2$$

- 
1. Draw a rectangle that is 18 cm long and 6 cm wide. Inside the rectangle, draw a smaller rectangle that is 8 cm long and 4 cm wide. Inside the smaller rectangle, draw a square that has a side length of 3 cm. Shade in the smaller rectangle, but leave the square unshaded. Find the area of the shaded space.