A Story of Units®

Eureka Math™

Grade 4, Module 7

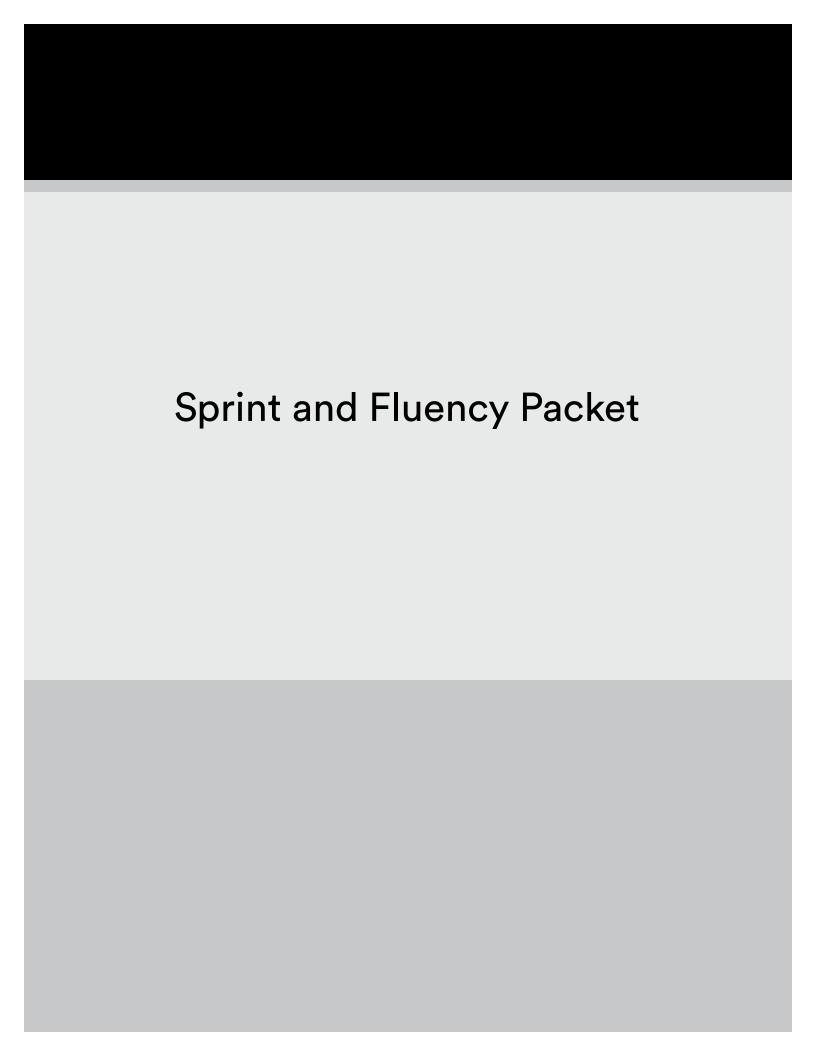## Student File_B

*Contains Sprint and Fluency, Exit Ticket,
and Assessment Materials*

Sprint and Fluency Packet

A

Number Correct: _____

Convert to Dollars

1.	1 cent =	$ 0.	23.	6 pennies =	
2.	2 cents =		24.	5 dimes =	
3.	3 cents =		25.	5 pennies =	
4.	8 cents =		26.	1 dime 1 penny =	
5.	80 cents =		27.	1 dime 2 pennies =	
6.	70 cents =		28.	1 dime 7 pennies =	
7.	60 cents =		29.	4 dimes 5 pennies =	
8.	20 cents =		30.	6 dimes 3 pennies =	
9.	1 penny =		31.	3 pennies 6 dimes =	
10.	1 dime =		32.	7 pennies 9 dimes =	
11.	2 pennies =		33.	1 quarter =	
12.	2 dimes =		34.	2 quarters =	
13.	3 pennies =		35.	3 quarters =	
14.	3 dimes =		36.	2 quarters 3 pennies =	
15.	9 dimes =		37.	1 quarter 3 pennies =	
16.	7 pennies =		38.	3 quarters 3 pennies =	
17.	8 dimes =		39.	2 quarters 2 dimes =	
18.	4 pennies =		40.	1 quarter 1 dime =	
19.	6 dimes =		41.	3 quarters 1 dime =	
20.	8 pennies =		42.	1 quarter 4 dimes =	
21.	7 dimes =		43.	3 quarters 2 dimes =	
22.	9 pennies =		44.	3 quarters 18 pennies =	

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Lesson 1: Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

1

B

Convert to Dollars

1.	2 cents =	$ 0.
2.	3 cents =	
3.	4 cents =	
4.	9 cents =	
5.	90 cents =	
6.	80 cents =	
7.	70 cents =	
8.	30 cents =	
9.	1 penny =	
10.	1 dime =	
11.	2 pennies =	
12.	2 dimes =	
13.	3 pennies =	
14.	3 dimes =	
15.	8 dimes =	
16.	6 pennies =	
17.	7 dimes =	
18.	9 pennies =	
19.	5 dimes =	
20.	7 pennies =	
21.	9 dimes =	
22.	8 pennies =	

23.	5 pennies =	
24.	6 dimes =	
25.	4 pennies =	
26.	1 dime 1 penny =	
27.	1 dime 2 pennies =	
28.	1 dime 8 pennies =	
29.	5 dimes 4 pennies =	
30.	7 dimes 4 pennies =	
31.	4 pennies 7 dimes =	
32.	6 pennies 8 dimes =	
33.	1 quarter =	
34.	2 quarters =	
35.	3 quarters =	
36.	2 quarters 4 pennies =	
37.	1 quarter 4 pennies =	
38.	3 quarters 4 pennies =	
39.	2 quarters 3 dimes =	
40.	1 quarter 2 dimes =	
41.	3 quarters 2 dimes =	
42.	1 quarter 5 dimes =	
43.	3 quarters 1 dime =	
44.	3 quarters 19 pennies =	

Lesson 1:   Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

2

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Name _____   Date _____

Practice Set A Part 1: Multi-Digit Addition Fluency

1.
```
      8, 1 4 9
  +  7, 2 6 4
```

2.
```
    4 2, 6 0 9
  +     8, 6 8 5
```

3.
```
    3 9,  5 6 3
  + 4 8,  4 3 8
```

4.
```
  6 5 8, 1 9 9
  +   2 5, 6 7 5
```

5.
```
  4 4 5, 9 7 6
  +    3 7, 4 1 5
```

6.
```
  4 3 8, 6 1 7
  + 4 9 3, 8 5 9
```

Practice Set A Part 2: Multi-Digit Addition Fluency

1.
```
      9, 2 0 2
  +  6, 2 1 1
```

2.
```
    4 2, 7 7 4
  +     8, 5 2 0
```

3.
```
    5 3, 5 4 5
  + 3 4, 4 5 6
```

4.
```
  6 0 4, 7 5 4
  +   7 9, 1 2 0
```

5.
```
  4 5 4, 3 1 5
  +   2 9, 0 7 6
```

6.
```
  1 1 0, 7 2 8
  + 8 2 1, 7 4 8
```

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Lesson 2:   Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

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Name _____   Date _____

Practice Set B Part 1: Multi-Digit Subtraction Fluency

1.
$$
\begin{array}{r}
7,739 \\
-\ 5,546 \\
\hline
\end{array}
$$

2.
$$
\begin{array}{r}
23,145 \\
-\ \ \ 5,129 \\
\hline
\end{array}
$$

3.
$$
\begin{array}{r}
71,378 \\
-\ 61,876 \\
\hline
\end{array}
$$

4.
$$
\begin{array}{r}
479,541 \\
-\ \ \ 78,856 \\
\hline
\end{array}
$$

Practice Set B Part 2: Multi-Digit Subtraction Fluency

1.
$$
\begin{array}{r}
7,699 \\
-\ 5,506 \\
\hline
\end{array}
$$

2.
$$
\begin{array}{r}
19,145 \\
-\ \ \ 1,129 \\
\hline
\end{array}
$$

3.
$$
\begin{array}{r}
71,878 \\
-\ 62,376 \\
\hline
\end{array}
$$

4.
$$
\begin{array}{r}
479,497 \\
-\ \ \ 78,812 \\
\hline
\end{array}
$$

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Lesson 2:   Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

4

Name _____   Date _____

Practice Set C Part 1: Multi-Digit Subtraction with Zeros Fluency

1.
```
    7, 8 9 0
  − 5, 4 7 2
```

2.
```
  2 8, 0 0 1
  −   5, 8 5 3
```

3.
```
  6 0, 4 0 7
− 3 5, 3 4 4
```

4.
```
  4 0 0, 0 6 9
  −   2 4, 3 6 2
```

Practice Set C Part 2: Multi-Digit Subtraction with Zeros Fluency

1.
```
    7, 8 9 0
  − 5, 4 7 2
```

2.
```
  2 8, 6 0 9
  −   6, 4 6 1
```

3.
```
  6 0, 4 9 7
− 3 5, 4 3 4
```

4.
```
  4 0 0, 8 6 9
  −   2 5, 1 6 2
```

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Lesson 2:   Create conversion tables for length, weight, and capacity units using measurement tools, and use the tables to solve problems.

5

Name _____   Date _____

Practice Set D Part 1: Multi-Digit Addition and Subtraction Fluency

1.
```
      9,  3 2 7
  +  9,  6 6 4
```

2.
```
     3 9,  4 6 3
  −  3 8,  9 3 8
```

3.
```
    7 5 8,  1 9 4
  +    3 5,  4 7 8
```

4.
```
   8 3 9,  0 1 4
  −    2 7,  0 7 5
```

5.
```
    4 3 8,  6 1 5
  + 1 9 3,  9 7 9
```

6.
```
    9 6 0,  0 4 3
  − 3 6 8,  9 7 2
```

Practice Set D Part 2: Multi-Digit Addition and Subtraction Fluency

1.
```
      9,  6 3 0
  +  9,  3 6 1
```

2.
```
     3 4,  4 7 8
  −  3 3,  9 5 3
```

3.
```
    7 5 4,  4 5 4
  +    3 9,  2 1 8
```

4.
```
   8 3 9,  0 9 9
  −    2 7,  1 6 0
```

5.
```
    1 0 8,  2 1 5
  + 5 2 4,  3 7 9
```

6.
```
    9 5 9,  9 4 3
  − 3 6 8,  8 7 2
```

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Lesson 2:   Create conversion tables for length, weight, and capacity units using
measurement tools, and use the tables to solve problems.

6

A

Number Correct: _____

Convert Length Units

1.	1 km =	m	23.	6 km =	m
2.	2 km =	m	24.	5 m =	cm
3.	3 km =	m	25.	7 m =	cm
4.	7 km =	m	26.	4 m =	cm
5.	5 km =	m	27.	8 m =	cm
6.	1 m =	cm	28.	4 yd =	ft
7.	2 m =	cm	29.	8 yd =	ft
8.	3 m =	cm	30.	6 yd =	ft
9.	9 m =	cm	31.	9 yd =	ft
10.	6 m =	cm	32.	5 ft =	in
11.	1 yd =	ft	33.	6 ft =	in
12.	2 yd =	ft	34.	1,000 m =	km
13.	3 yd =	ft	35.	8,000 m =	km
14.	10 yd =	ft	36.	100 cm =	m
15.	5 yd =	ft	37.	600 cm =	m
16.	1 ft =	in	38.	3 ft =	yd
17.	2 ft =	in	39.	24 ft =	yd
18.	3 ft =	in	40.	12 in =	ft
19.	10 ft =	in	41.	72 in =	ft
20.	4 ft =	in	42.	8 ft =	in
21.	9 km =	m	43.	84 in =	ft
22.	4 km =	m	44.	9 ft =	in

B

Convert Length Units

1.	1 m =	cm	23.	6 m =	cm
2.	2 m =	cm	24.	5 km =	m
3.	3 m =	cm	25.	7 km =	m
4.	7 m =	cm	26.	4 km =	m
5.	5 m =	cm	27.	8 km =	m
6.	1 km =	m	28.	6 yd =	ft
7.	2 km =	m	29.	9 yd =	ft
8.	3 km =	m	30.	4 yd =	ft
9.	9 km =	m	31.	8 yd =	ft
10.	6 km =	m	32.	5 ft =	in
11.	1 yd =	ft	33.	6 ft =	in
12.	2 yd =	ft	34.	100 cm =	m
13.	3 yd =	ft	35.	800 cm =	m
14.	5 yd =	ft	36.	1,000 m =	km
15.	10 yd =	ft	37.	6,000 m =	km
16.	1 ft =	in	38.	3 ft =	yd
17.	2 ft =	in	39.	27 ft =	yd
18.	3 ft =	in	40.	12 in =	ft
19.	10 ft =	in	41.	84 in =	ft
20.	4 ft =	in	42.	9 ft =	in
21.	9 m =	cm	43.	72 in =	ft
22.	4 m =	cm	44.	8 ft =	in

Exit Ticket Packet

Name _____   Date _____

1. Solve.

   a.   8 feet = _____ inches

   b.   4 yards 2 feet = _____ feet

   c.   14 pounds 7 ounces = _____ ounces

2. Answer *true* or *false* for the following statements. If the statement is false, change the right side of the comparison to make it true.

   a.   3 pounds > 60 ounces   _____

   b.   12 yards < 40 feet   _____

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Lesson 1:   Create conversion tables for length, weight, and capacity units using
measurement tools, and use the tables to solve problems.

1

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Name _____   Date _____

1. Complete the table.

Quarts	Cups
1	
2	
4	

2. Bonnie's doctor recommended that she drink 2 cups of milk per day. If she buys 3 quarts of milk, will it be enough milk to last 1 week? Explain how you know.

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Name _____   Date _____

The astronauts from Apollo 17 completed 3 spacewalks while on the moon for a total duration of 22 hours 4 minutes. How many minutes did the astronauts walk in space?

EUREKA MATH   **Lesson 3:**   Create conversion tables for units of time, and use the tables to solve   **3**
                                       problems.

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Name _____   Date _____

Use RDW to solve the following problem.

Brian has a melon that weighs 3 pounds. He cut it into six equal pieces. How many ounces did each piece weigh?

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Lesson 4:   Solve multiplicative comparison word problems using measurement
conversion tables.

4

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Name _____   Date _____

Caitlin ran 1,680 feet on Monday and 2,340 feet on Tuesday. How many yards did she run in those two days?

Name _____   Date _____

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

   a. 7 gal 2 qt + 3 gal 3 qt = _____ gal _____ qt

   b. 9 gal 1 qt – 5 gal 3 qt = _____ gal _____ qt

2. Jason poured 1 gallon 1 quart of water into an empty 2-gallon bucket. How much more water can be added to reach the bucket's 2-gallon capacity?

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Name _____   Date _____

Determine the following sums and differences. Show your work.

1. 4 yd 1 ft + 2 ft _____ yd

2. 6 yd – 1 ft = _____ yd _____ ft

3. 4 yd 1 ft + 3 yd 2 ft = _____ yd

4. 8 yd 1 ft – 3 yd 2 ft = _____ yd _____ ft

Name _____   Date _____

Determine the following sums and differences. Show your work.

1.   4 lb 6 oz + 10 oz = _____ lb _____ oz

2.   12 lb 4 oz + 3 lb 14 oz = _____ lb _____ oz

3.   5 lb 4 oz – 12 oz = _____ lb _____ oz

4.   20 lb 5 oz – 13 lb 7 oz = _____ lb _____ oz

Name _____   Date _____

Find the following sums and differences. Show your work.

1. 2 hr 25 min + 25 min = _____ hr _____ min

2. 4 hr 45 min + 2 hr 35 min = _____ hr _____ min

3. 11 hr 6 min – 32 min = _____ hr _____ min

4. 8 hr 9 min – 6 hr 42 min = _____ hr_____ min

Name _____   Date _____

Use RDW to solve the following problem.

Hadley spent 1 hour and 20 minutes completing her math homework, 45 minutes completing her social studies homework, and 30 minutes studying her spelling words. How much time did Hadley spend on homework and studying?

Name _____   Date _____

Use RDW to solve the following problem.

Judy spent 1 hour 15 minutes less than Sandy exercising last week. Sandy spent 50 minutes less than Mary, who spent 3 hours at the gym. How long did Judy spend exercising?

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Name _____   Date _____

1. Solve the problems using whatever tool works best for you.

   a. $\dfrac{}{12}$ ft $= \dfrac{1}{2}$ ft = _____ in

   1 foot

   b. $\dfrac{}{12}$ ft $= \dfrac{3}{4}$ ft = _____ in

   0 1 2 3 4 5 6 7 8 9 10 11 12

   inches

2. Solve.

   a. $1\dfrac{1}{3}$ yd = _____ ft

   b. $5\dfrac{3}{4}$ gal = _____ qt

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Name _____   Date _____

1. Draw a tape diagram to show that $4\frac{3}{4}$ gallons = 19 quarts.

2. Solve.

a. $1\frac{1}{4}$ pounds = _____ ounces	b. $2\frac{3}{4}$ hr = _____ min
c. $5\frac{1}{2}$ feet = _____ inches	d. $3\frac{5}{6}$ ft = _____ in

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Lesson 13:   Use measurement tools to convert mixed number measurements to smaller units.

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Name _____   Date _____

Use RDW to solve the following problem.

It took Gigi 1 hour and 20 minutes to complete a bicycle race. It took Johnny twice as long because he got a flat tire. How many minutes did it take Johnny to finish the race?

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Lesson 14:   Solve multi-step word problems involving converting mixed number measurements to a single unit.

14

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Name _____   Date _____

In the table below are topics that you learned in Grade 4 and that were used in today's lesson.

Choose 1 topic, and describe how you were successful in using it today.

2-digit by 2-digit multiplication	Area formula	Division of 3-digit number by 1-digit number
Subtraction of multi-digit numbers	Addition of multi-digit numbers	Solving multi-step word problems

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Lesson 15: Create and determine the area of composite figures.

15

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Name _____   Date _____

In the table below are skills that you learned in Grade 4 and that you used to complete today's lesson. These skills were originally introduced in earlier grades, and you will continue to work on them as you go on to later grades. Choose three topics from the chart, and explain how you think you might build on and use them in Grade 5.

Multiply 2-digit by 2-digit numbers	Use the area formula to find the area of composite figures	Create composite figures from a set of specifications
Subtract multi-digit numbers	Add multi-digit numbers	Solve multi-step word problems
Construct parallel and perpendicular lines	Measure and construct 90° angles	Measure in centimeters

Lesson 16:   Create and determine the area of composite figures.

16

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Name _____ Date _____

1. What are you able to do now in math that you were not able to do at the beginning of Grade 4?

2. Which activities would you like to practice this summer in order to keep fluent or become more fluent?

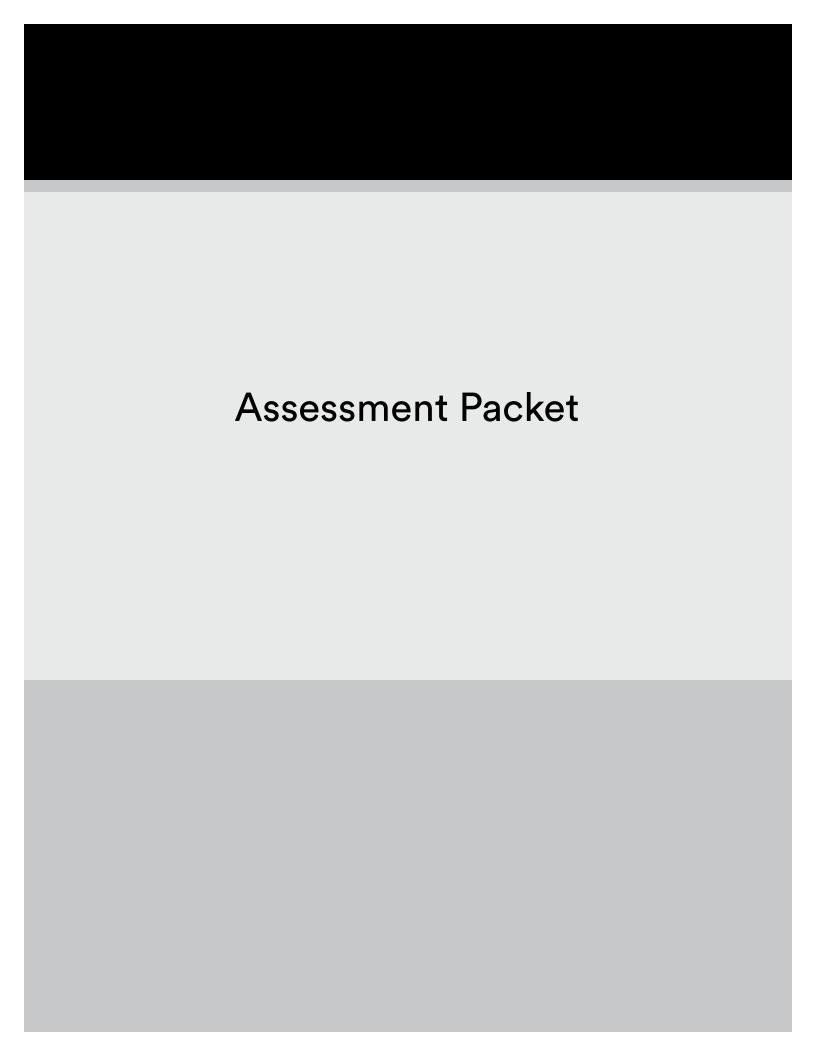3. What type of practice would help you build your fluency with these concepts?

Name _____   Date _____

1. Why do you think vocabulary was such an important part of fourth-grade math? How does vocabulary help you in math?

2. Which vocabulary terms do you know well, and which would you like to improve upon?

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Assessment Packet

Name _____   Date _____

1. Solve for the following conversions. Draw tape diagrams to model the equivalency.

   a.   1 gal = _____ qt   b.   3 qt 1pt = _____ pt

2. Complete the following tables:

   a.

Pounds	Ounces
1	
2	
6	
10	
13	

   b.

Hours	Minutes
1	
3	
7	
10	
14	

   The rule for converting pounds to ounces is

   _____.

   The rule for converting hours to minutes is

   _____.

3. Answer *true* or *false* for the following statements. Explain how you know using pictures, numbers, or words.

   a.   68 ounces < 4 pounds   _____

   b.   920 minutes > 17 hours   _____

   c.   38 inches = 3 feet 2 inches   _____

4. Convert the following measurements.

   a. Express the length of a 9 kilometer trip in meters. _____

   b. Express the capacity of a 3 liter 240 milliliter container in milliliters. _____

   c. Express the length of a 3 foot 5 inch fish in inches. _____

   d. Express the length of a $2\frac{1}{4}$ hour movie in minutes. _____

   e. Express the weight of a $24\frac{3}{8}$ pound wolverine in ounces. _____

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

   a. 4 gal 2 qt + 5 gal 3 qt = _____ gal _____ qt

   b. 6 ft 2 in − 9 inches = _____ ft _____ in

   c. 3 min 34 sec + 7 min 46 sec = _____ min _____ sec

   d. 24 lb 9 oz − 3 lb 11 oz = _____ lb _____ oz

6. a. Complete the table.

b. Describe the rule for converting yards to inches.

Length	
yards	inches
1	
2	
3	
4	
5	
10	

c. How many inches are in 15 yards?

d. Jacob says that he can find the number of inches in 15 yards by tripling the number of inches in 5 yards. Does his strategy work? Why or why not?

e. A blue rope in Garret's camping backpack is 6 yards long. The blue rope is 3 times as long as a red rope. A yellow rope is 2 feet 7 inches shorter than the red rope. What is the difference in length between the blue rope and the yellow rope?