Name _____   Date _____

Use the RDW process to solve the following problems.

Item	Cost
1 balloon	26¢
1 lollipop	14¢
1 bracelet	33¢

1. The table shows the cost of party favors. Each party guest receives a bag with 1 balloon, 1 lollipop, and 1 bracelet. What is the total cost for 9 guests?
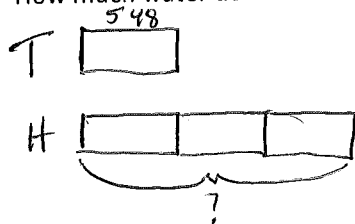
73¢

26 | 14 | 33

$$\begin{array}{r} 26 \\ 14 \\ +33 \\ \hline 73¢ \end{array}$$

73¢

$$\begin{array}{r} 73 \\ \times\ 9 \\ \hline 657¢ \end{array}$$

$6.57

← It would be fine to leave the answer in cents. Decimal fractions are introduced in G4.M.6

2. The Turner family uses 548 liters of water per day. The Hill family uses 3 times as much water per day. How much water does the Hill family use per week?
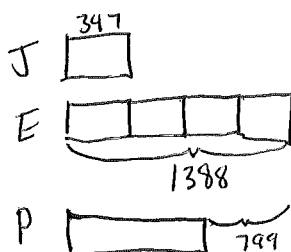
548

T [ ]

H [| |]
?

$$\begin{array}{r} 548 \\ \times\ 3 \\ \hline 1,644 \end{array}$$

$$\begin{array}{r} 1644 \\ \times\ 7 \\ \hline 11,508 \end{array}$$

The Hill family uses 1,644 L per day.

They use 11,508 L per week.

3. Jayden has 347 marbles. Elvis than 4 times as many as Jayden. Presley has 799 fewer than Elvis. How many marbles does Presley have?
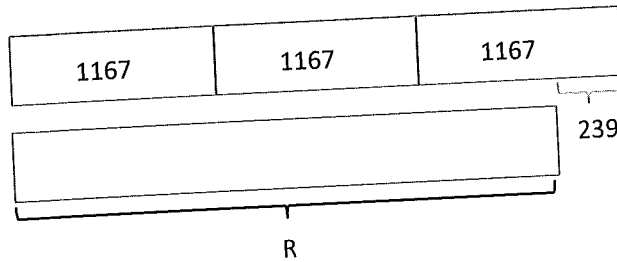
347

J [ ]

E [| | |]
1388

P [ ]
799

$$\begin{array}{r} 347 \\ \times\ 4 \\ \hline 1388 \end{array}$$

$$\begin{array}{r} 1388 \\ -\ 799 \\ \hline 589 \end{array}$$

Presley has 589 marbles.

4.

a. Write an equation that would allow someone to find the value of R.

1167	1167	1167

239

R

$$(3 \times 1167) - 239 = R \qquad \text{or} \qquad R + 239 = 3 \times 1167$$

b. Write your own word problem to correspond to this tape diagram, then solve.

If Marcus had 239 more stamps his collection would be 3 times as large as his brother's collection. If his brother has 1,167 stamps how many stamps does Marcus have?

Name _____   Date _____

Use the RDW process to solve the following problem.

1. Jennifer has 256 pink beads. Stella has 3 times as many beads as Jennifer. Tiah has 104 more beads than Stella. How many beads does Tiah have?

J – [256]

S – [256 | 256 | 256]

T – [768 | 104]

Stella
256
× 3
‾‾‾‾‾‾
768 beads

Tiah
768
+ 104
‾‾‾‾‾‾
872 beads

Tiah has 872 beads.

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Name _____   Date _____

Use the RDW process to solve the following problems.

1. The table shows the number of stickers of various types in Chrissy's new sticker book. Chrissy's six friends also own the same sticker book. How many stickers do Chrissy and her six friends have altogether?

Type of Sticker	Number of Stickers
flowers	32
smiley faces	21
hearts	39

$$\begin{array}{r} 32 \\ 21 \\ +39 \\ \hline 92 \end{array}$$

92 stickers for each

$$\begin{array}{r} 92 \\ \times\ 7 \\ \hline 644 \end{array}$$

Chrissy and her 6 friends have 644 stickers all together.

2. The small copier makes 437 copies each day. The large copier makes 4 times as many copies each day. How many copies does the large copier make each week?

$$\begin{array}{r} 437 \\ \times\ \ 4 \\ \hline 1748 \end{array}\ copies$$

$$\begin{array}{r} 1,748 \\ \times\ \ \ \ 7 \\ \hline 12,236 \end{array}\ Copies$$

The large copier makes 12,236 copies each week.

3. Jared sold 194 Boy Scout chocolate bars. Matthew sold three times as many as Jared. Gary sold 297 fewer than Matthew. How many bars did Gary sell?

J – [194]
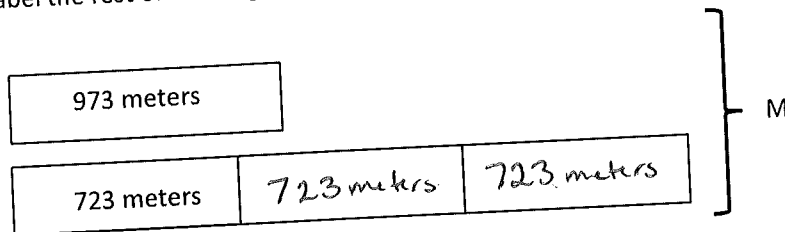M – [194 | 194 | 194] = 582
G – 582
[X | 297]

$$\begin{array}{r} 194 \\ \times\ \ 3 \\ \hline 582 \end{array}$$

$$\begin{array}{r} 582 \\ -297 \\ \hline 285 \end{array}$$

Gary sold 285 bars.

Skip

4. a. Label the rest of the diagram below. Solve for M.

| 973 meters | | |

| 723 meters | 723 meters | 723 meters |

$\rbrace$ M

$$723$$
$$\times \ 3$$
$$\overline{2169}$$

$$2169$$
$$+ \ 973$$
$$\overline{3142}$$

$$M = 3142$$

b. Write your own problem that could be solved using the diagram above.

Ryan walked his dog for 973 meters on Monday. The next 3 days he walked the dog for 723 meters each day. How far did he walk the dog in those 4 days?

Name _____   Date _____

Solve using the RDW process.

1. Over the summer, Kate earned $180 each week for 7 weeks. Of that money, she spent $375 on a new computer and $137 on new clothes. How much money did she have left?

7×180

| ? | $375 | $137 |

$$\begin{array}{r} 180 \\ \times\ 7 \\ \hline \$1260 \end{array}$$

$$\begin{array}{r} 375 \\ +137 \\ \hline \$512 \end{array}$$

$$\begin{array}{r} 1260 \\ -\ 512 \\ \hline 748 \end{array}$$

Kate had $748 left.

2. Sylvia weighed 8 pounds when she was born. By her first birthday, her weight had tripled. By her second birthday, she had gained 12 more pounds. At that time, Sylvia's father weighed 5 times as much as she did. What was Sylvia and her dad's combined weight?

born [8] 24

1st [ ][ ][ ]

2nd [24][12]
    36

Father [36][ ][ ][ ][ ]

Their combined weight was 216 pounds.

$$\begin{array}{r} 36 \\ \times\ 5 \\ \hline 180 \end{array}$$ Sylvia's father

$$\begin{array}{r} 180 \\ +\ 36 \\ \hline 216 \end{array}$$

COMMON CORE

Lesson 13:   Use multiplication, addition, or subtraction to solve multi-step word problems.
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3. Three boxes weighing 128 pounds each and one box weighing 254 pounds were loaded onto the back of an empty truck. A crate of apples was then loaded onto the same truck. If the total weight loaded onto the truck was 2,000 pounds, how much did the crate of apples weigh?

4. In one month, Charlie read 814 pages. In the same month, his mom read 4 times as many pages as Charlie, and that was 143 pages more than Charlie's dad read. What was the total number of pages read by Charlie and his parents?

COMMON CORE

Lesson 13:   Use multiplication, addition, or subtraction to solve multi-step word problems.

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Name _____   Date _____

1. Solve using the RDW process.
    a. Michael earns $9 per hour. He works 28 hours each week. How much will he earn in 6 weeks?

    b. David earns $8 per hour. He works 40 hours each week. How much will he earn in 6 weeks?

    c. After 6 weeks who earned more money? How much more money?

Name _____   Date _____

Solve using the RDW process.

1. A pair of jeans costs $89. A jean jacket costs twice as much. What is the total cost of a jean jacket and 4 pairs of jeans?

2. Sarah bought a shirt on sale for $35. The original price of the shirt was 3 times that amount. Sarah also bought a pair of shoes on sale for $28. The original price of the shoes was 5 times that amount. How much money did the shirt and shoes cost before they went on sale?

COMMON CORE

Lesson 13:   Use multiplication, addition, or subtraction to solve multi-step word problems.
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3. All 3,000 seats in a theater are being replaced. So far, 5 sections of 136 seats and a sixth section containing 348 seats have been replaced. How many more seats do they still need to replace?

4. Computer Depot sold 762 reams of paper. Paper Palace sold 3 times as much paper as Computer Depot and 143 reams more than Office Supply Central. How many reams of paper were sold by all three stores combined?

COMMON CORE

Lesson 13:

Date:

Use multiplication, addition, or subtraction to solve multi-step word problems.
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