

#### Footloose!



#### **Common Core State Standards:**

**5.NBT.7** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

**6.NS.B.3** Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation

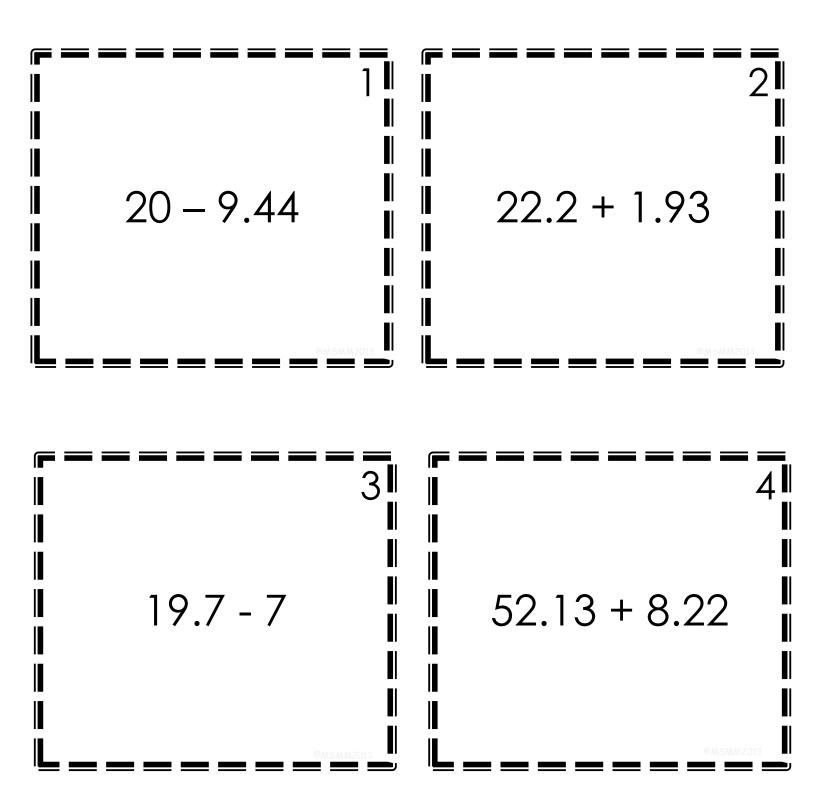
#### **Directions:**

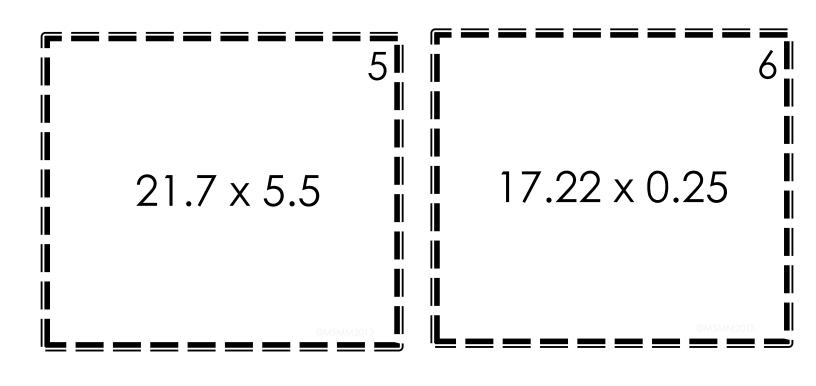
- 1. Copy enough Footloose grids for each student in the class, and distribute one grid to each student.
- 2. Give each student one of the 30 cards (it is best if these cards are laminated). If there are extra cards, they can be placed around the room for students to pick up as needed. If there are more than 30 students, students may share cards as they work.
- 3. Students should answer the question on their first card by writing the answer on their grid (not on the card), in the box with the number that corresponds to the number in the right hand corner of the question card.
- 4. After recording the answer, students should place the card in a "central location," like a chalk ledge or a table, and then take a new card to complete. (An alternate way to play display the cards around the room and students may go to the cards in the order they choose.)
- 5. Students should continue to answer the questions one card at a time, returning each card as they finish, until they have filled the entire grid.
- 6. The "winner" of the game is the student who answers the most questions correctly!

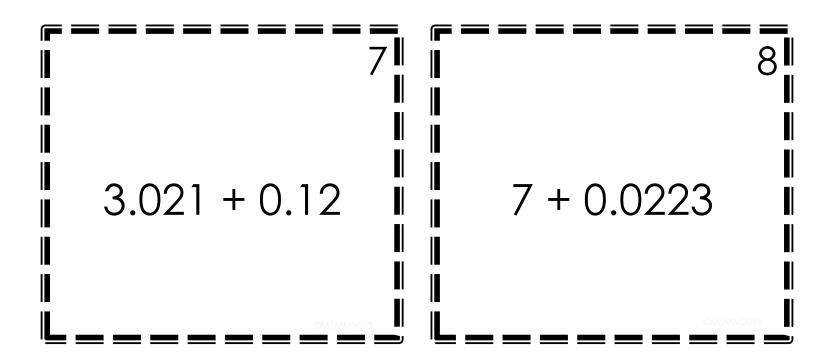
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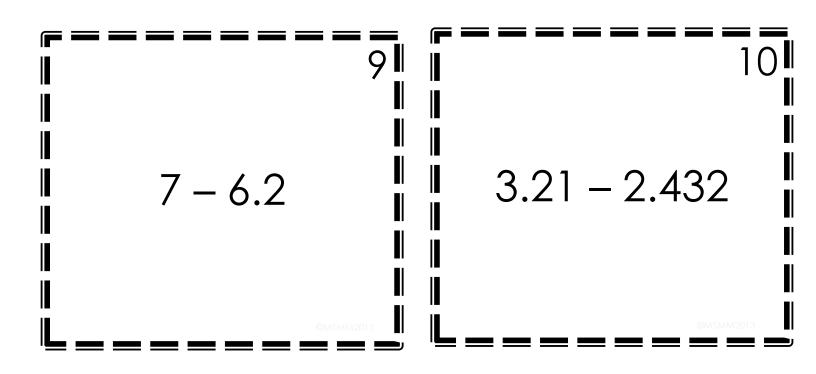
## Footloose

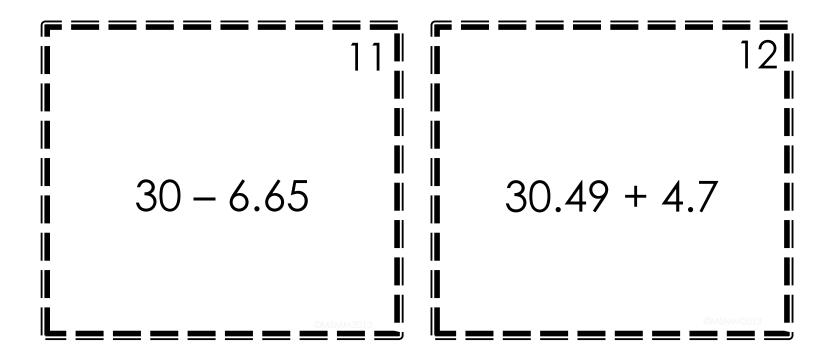
| 1  | 2  | 3  | 4  | 5  |
|----|----|----|----|----|
| 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |

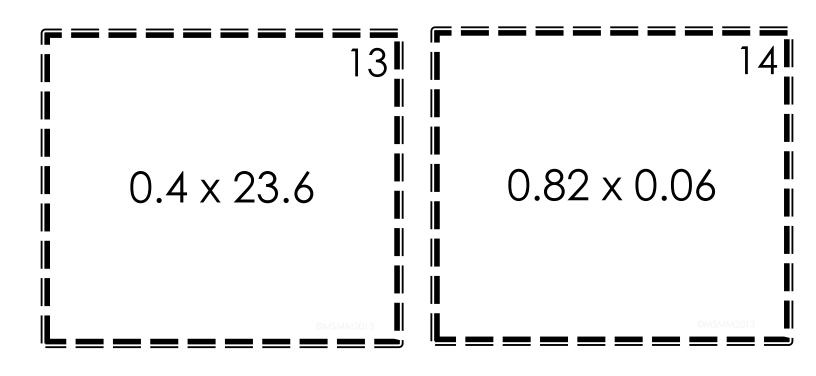


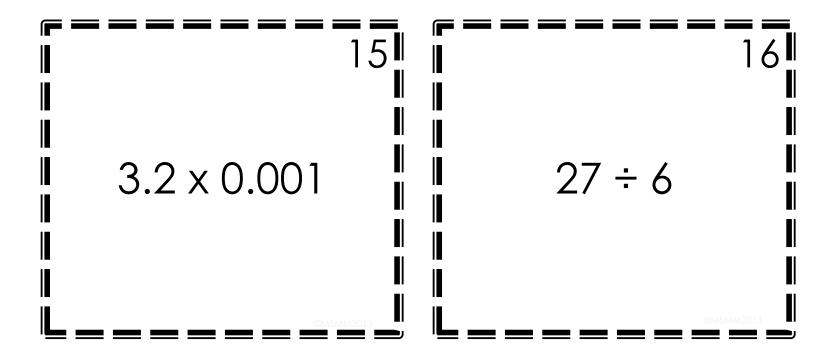


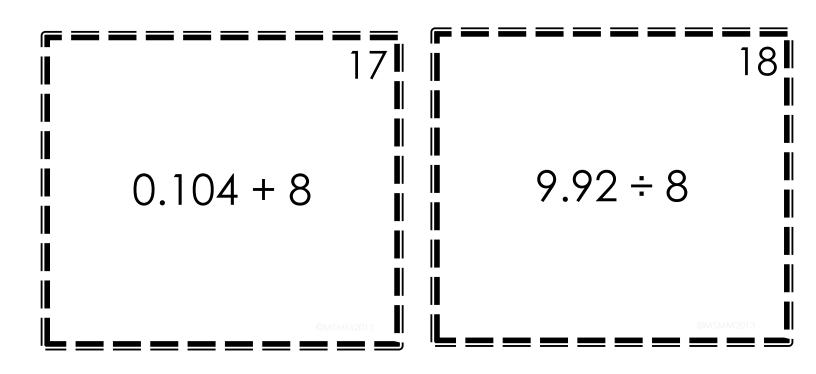


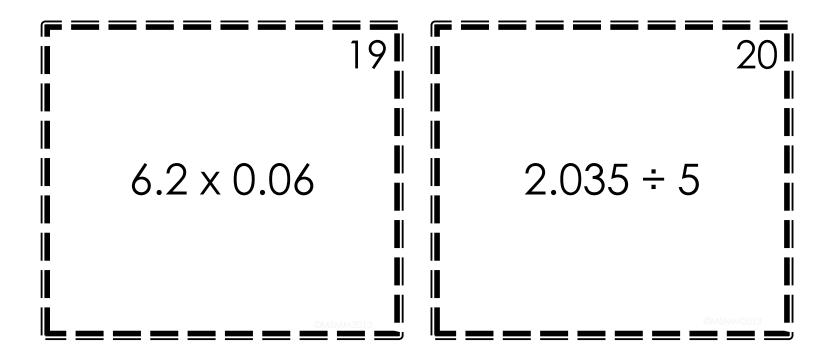


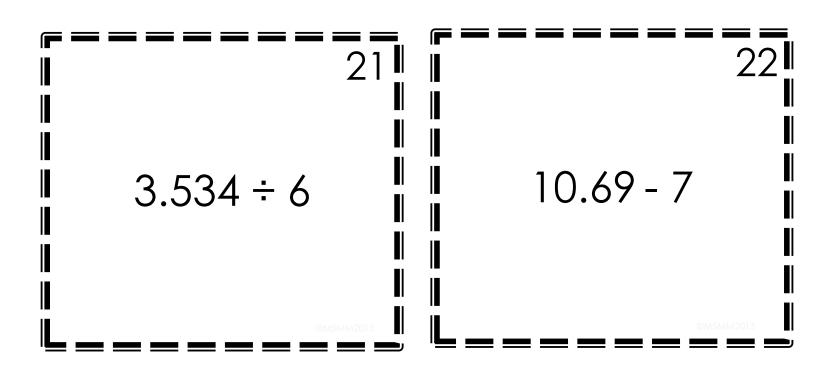


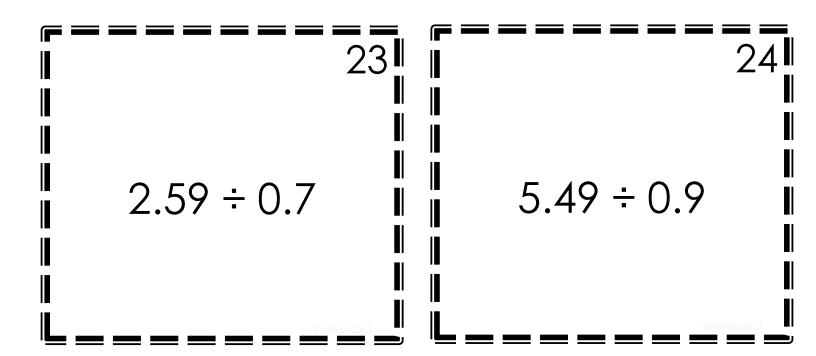


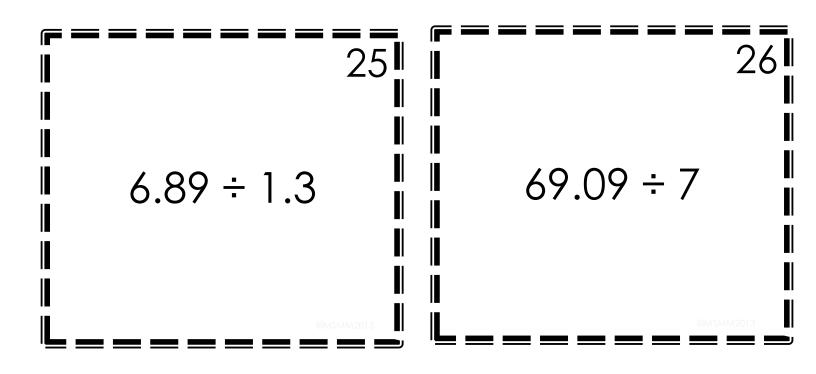


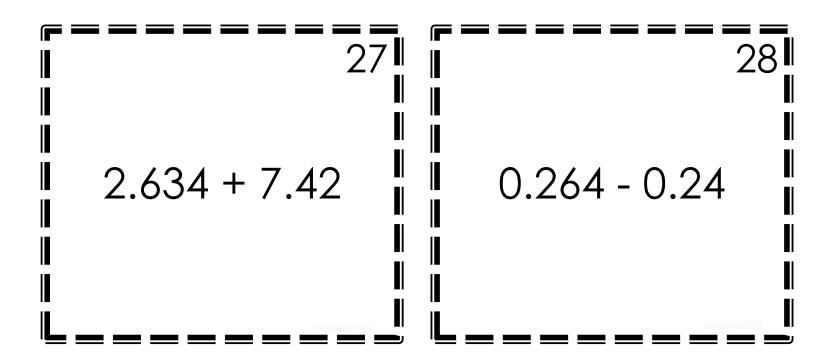


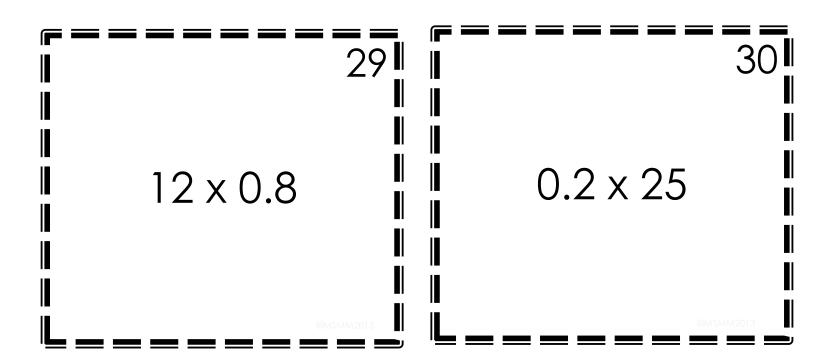


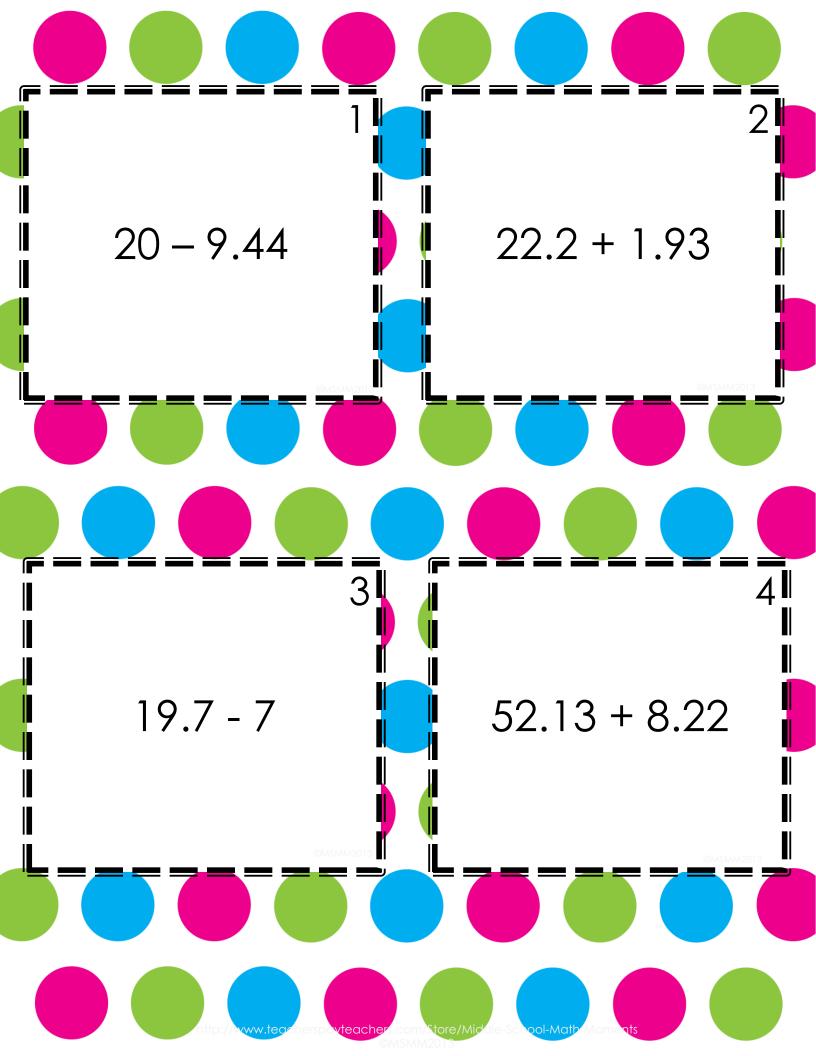


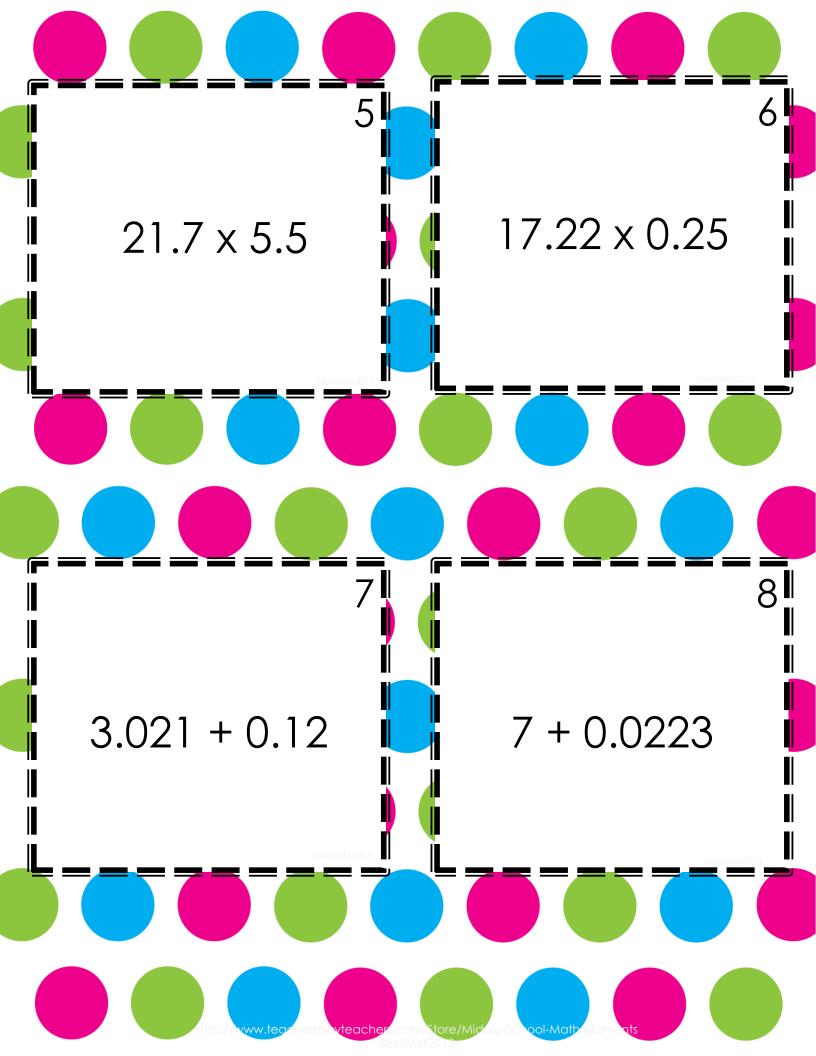


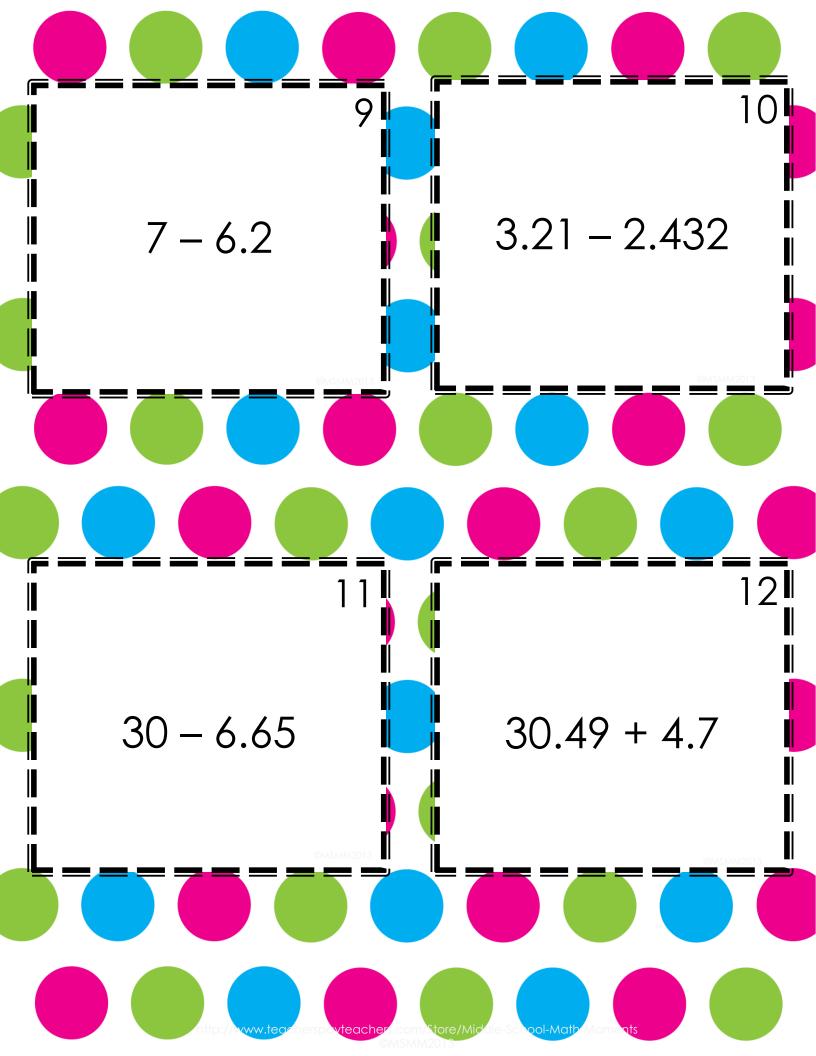


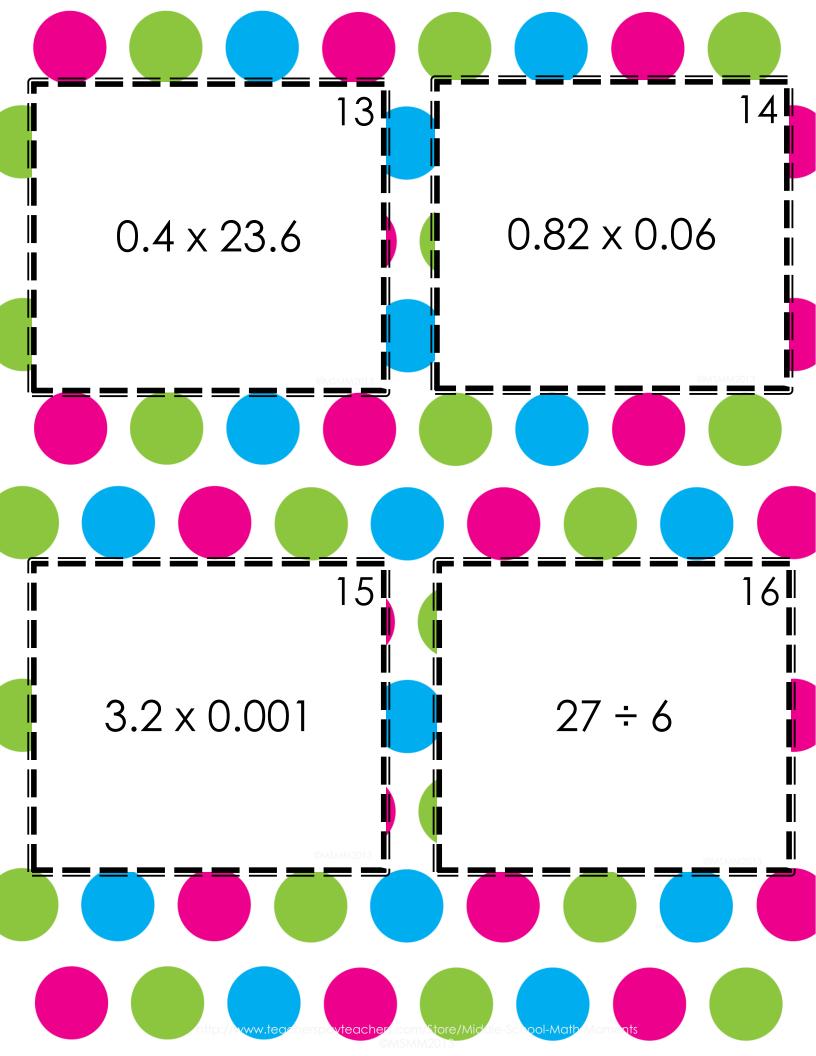


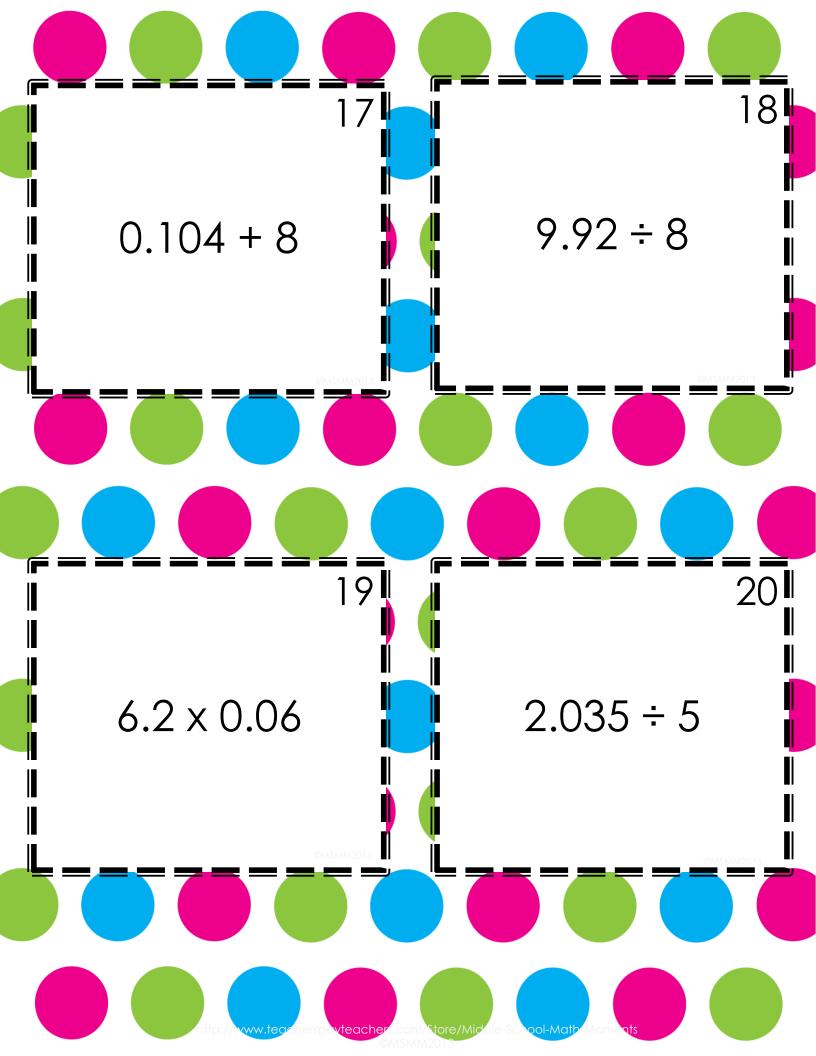


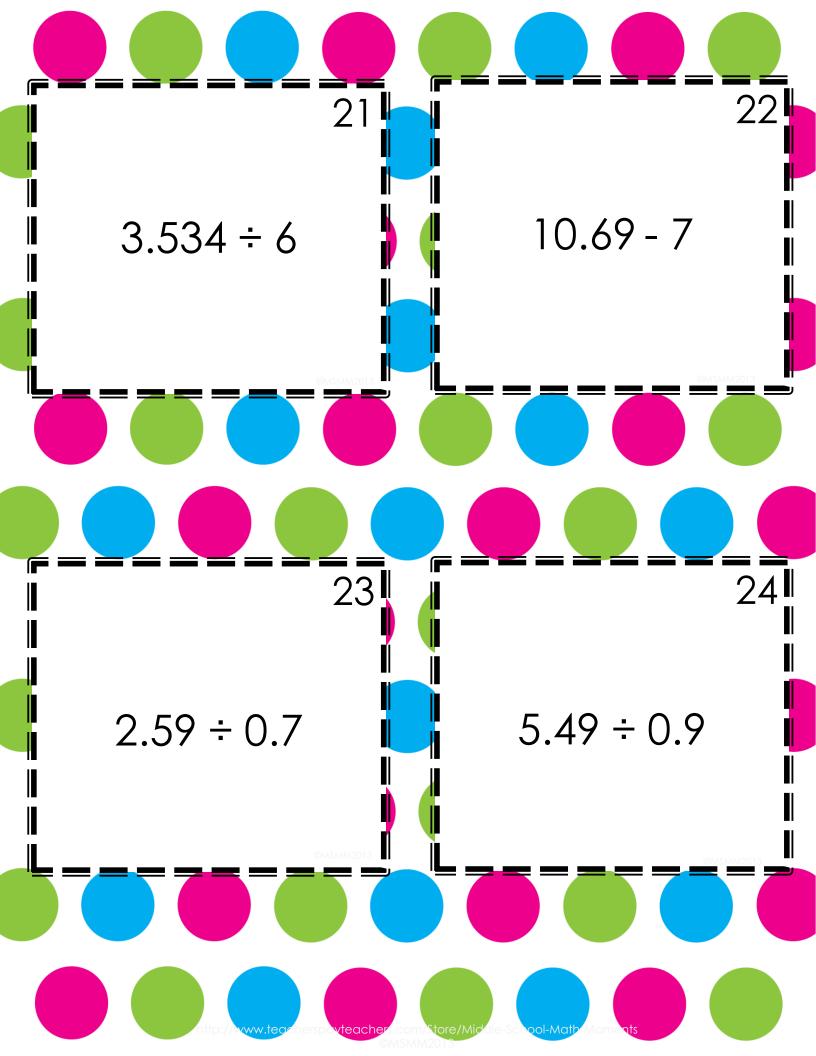


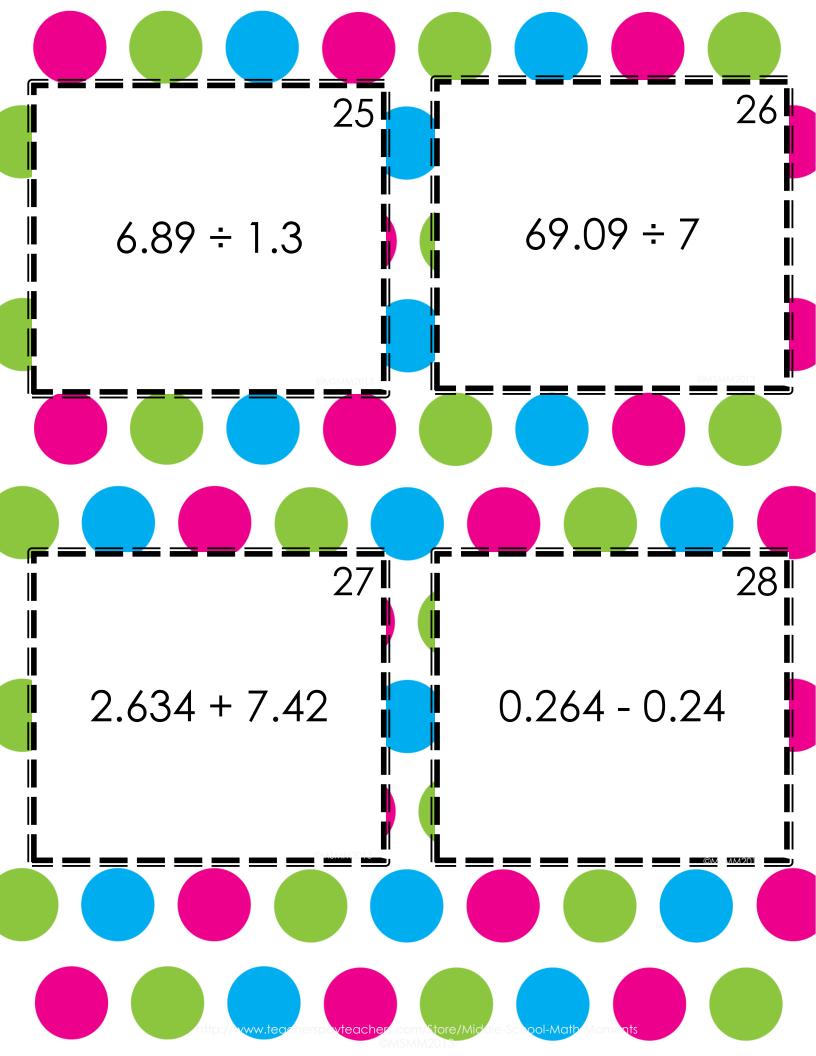


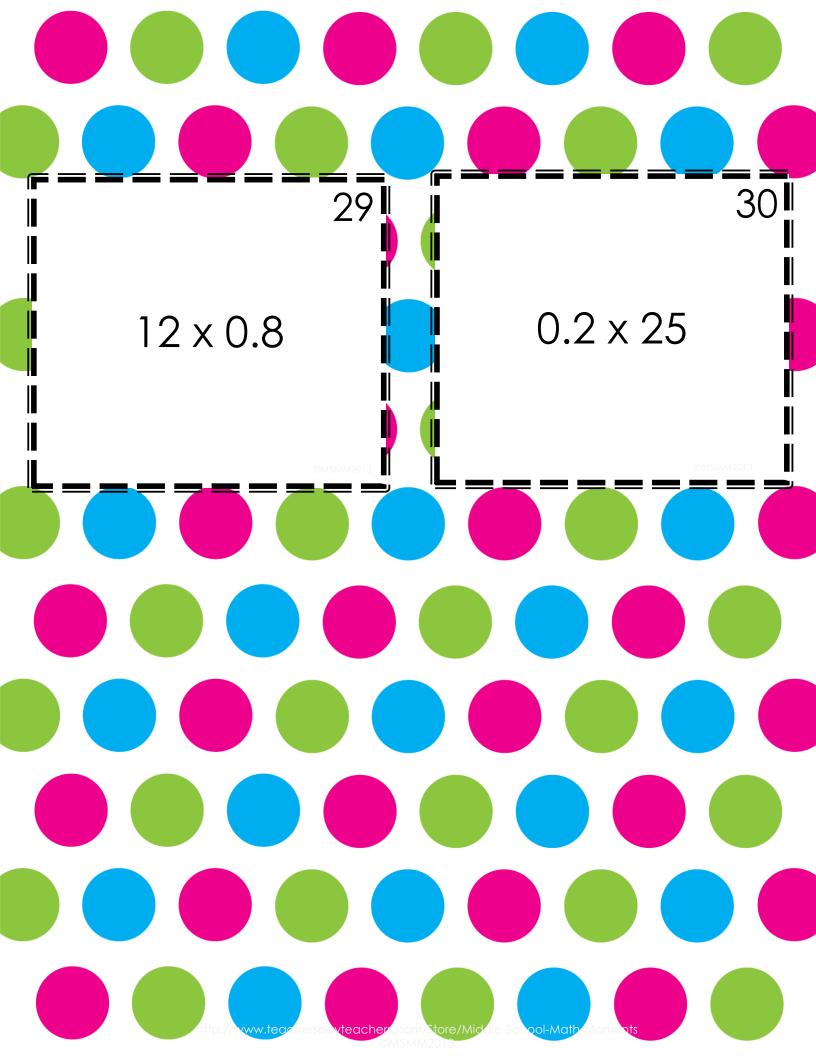












# Footloose Answer Key

| 1              | 2              | 3               | 4              | 5              |
|----------------|----------------|-----------------|----------------|----------------|
| 20 – 9.44 =    | 22.2 + 1.93 =  | 19.7 – 7 =      | 52.13 + 8.22 = | 21.7 x 5.5 =   |
| 10.56          | 24.13          | 12.7            | 60.35          | 119.35         |
|                |                |                 |                |                |
|                |                |                 |                |                |
| 6              | 7              | 8               | 9              | 10             |
| 17.22 x 0.25 = | 3.021 + 0.12 = | 7 + 0.0223 =    | 7 – 6.2 =      | 3.21 – 2.432 = |
|                |                |                 |                |                |
| 4.305          | 3.141          | 7.0223          | 0.8            | 0.778          |
|                |                |                 |                |                |
| 11             | 12             | 13              | 14             | 15             |
|                |                |                 |                |                |
| 30 – 6.65 =    | 30.49 + 4.7 =  | 0.4 x 23.6 =    | 0.82 x 0.06 =  | 3.2 x 0.001    |
| 23.35          | 35.19          | 9.44            | 0.0492         | 0.0032         |
| 25.55          | 33.13          | 3.44            | 0.0432         | 0.0032         |
|                |                |                 |                |                |
| 16             | 17             | 18              | 19             | 20             |
| 27 ÷ 6         | 0.104 + 8      | 9.92 ÷ 8        | 6.2 x .06      | 2.035 ÷ 5      |
|                |                |                 |                |                |
| 4.5            | 8.104          | 1.24            | 0.372          | 0.407          |
|                |                |                 |                |                |
|                |                |                 |                |                |
| 21             | 22             | 23              | 24             | 25             |
| 3.534 ÷ 6      | 10.69 - 7      | $2.59 \div 0.7$ | 5.49 ÷ 0.9     | 6.89 ÷ 1.3     |
|                |                |                 |                |                |
| 0.589          | 3.69           | 3.7             | 6.1            | 5.3            |
|                |                |                 |                |                |
| 26             | 27             | 28              | 29             | 30             |
| 69.09 ÷ 7      | 2.634 + 7.42   | 0.264 - 0.24    |                | 0.2 x 25       |
| 09.09 7        | 2.034 + /.42   | U.204 - U.24    | 12 x 0.8       | U.Z X Z5       |
|                | 10.054         | 0.024           | 9.6            | 5.0            |
| 9 27           | 1() ()5/       |                 |                | J.U            |
| 9.87           | 10.054         | 0.024           | 3.0            |                |
| 9.87           | 10.054         | 0.024           | 3.0            |                |

#### **Problem Solving**

The following pages have six different problem solving situations, and each situation has 3 - 4 questions to be answered. The questions incorporate adding, subtracting, multiplying, and dividing decimals.

I often use this type of problem solving with cooperative groups, to provide opportunities for the math conversations that are so helpful to students' understanding and development of math concepts. In their groups, students work out the answers on their own papers, and after discussion and agreement, write the group's final answers on the answer sheets provided. One form of answer sheet goes with the situations that have three questions and the other is for those with four.

I have used these for a portion of the class period, for several days during a week, with each group solving one different problem set each day.

The problem solving is also convenient for use in centers, during which students could work on the problems individually.

I have found it helpful to laminate the problem solving pages for reuse.

Answer keys are included. The answer keys are in detail, showing the work for each problem, so students could self-correct if you choose.

#### **Answer Sheet**

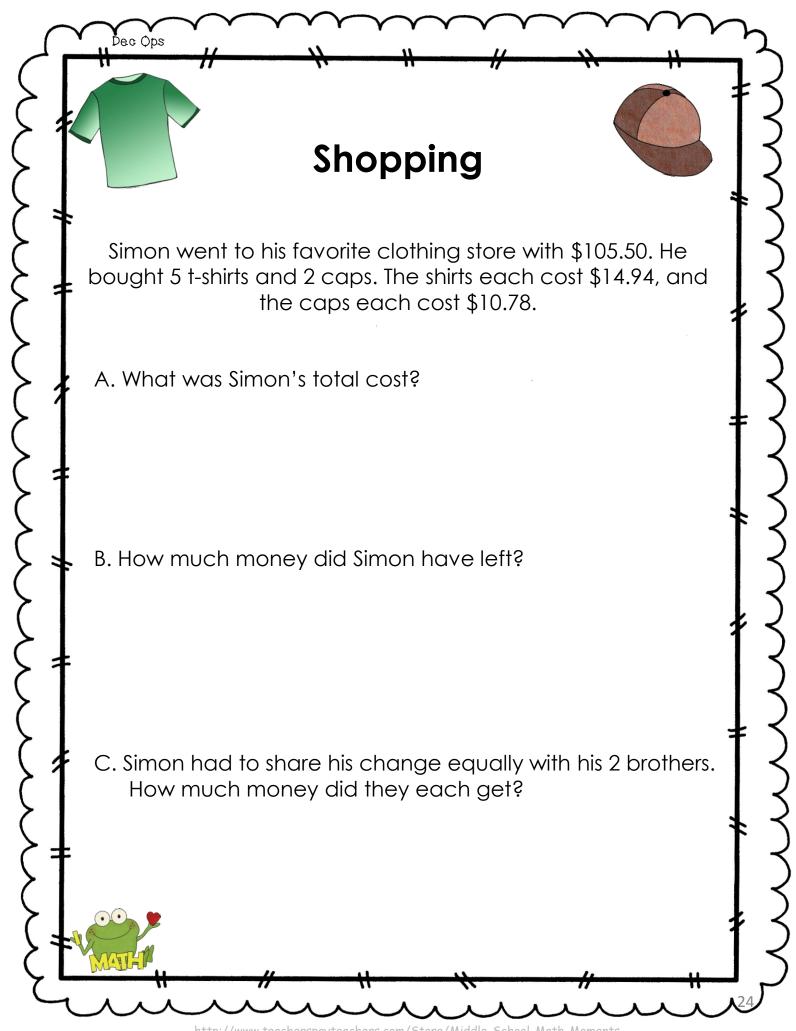
**Directions:** This answer sheet is the final copy of work and answers. After solving on separate paper, copy all work and answers onto this sheet. Make sure you list the work and answers under the correct letter. Remember to label your answers!

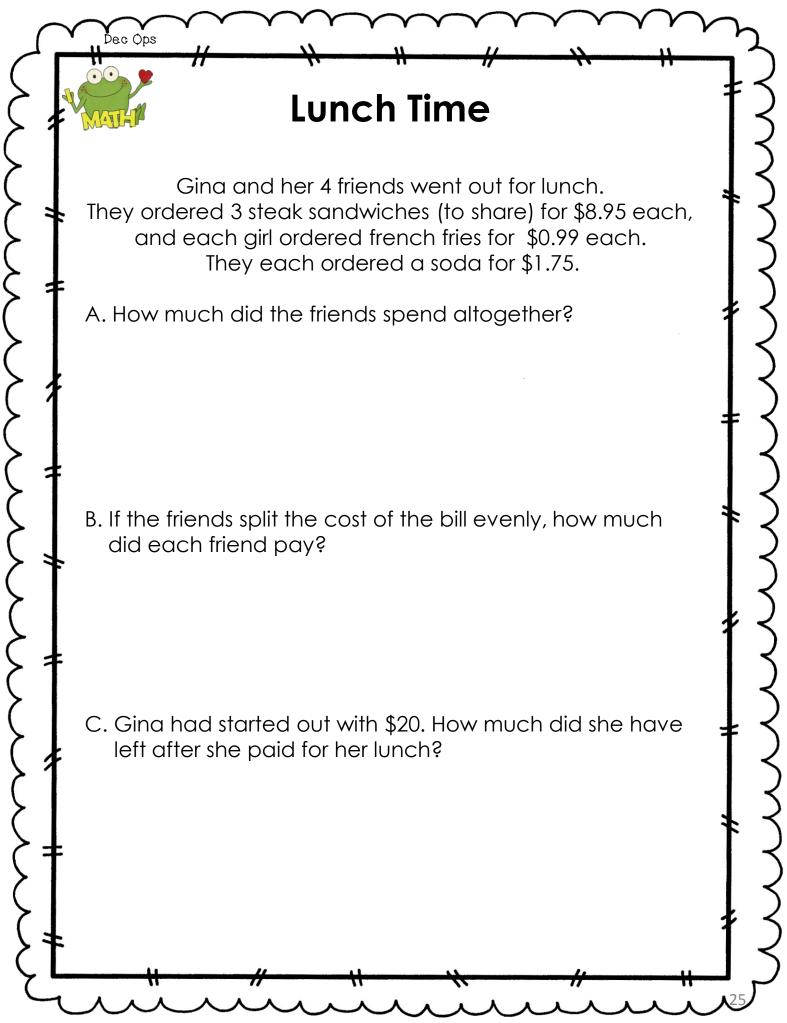
| Part A: |  |  |
|---------|--|--|
|         |  |  |
|         |  |  |
|         |  |  |
| Part B: |  |  |
|         |  |  |
|         |  |  |
|         |  |  |
|         |  |  |
| Part C: |  |  |
|         |  |  |
|         |  |  |
|         |  |  |
| Part D: |  |  |
|         |  |  |
|         |  |  |
|         |  |  |
|         |  |  |

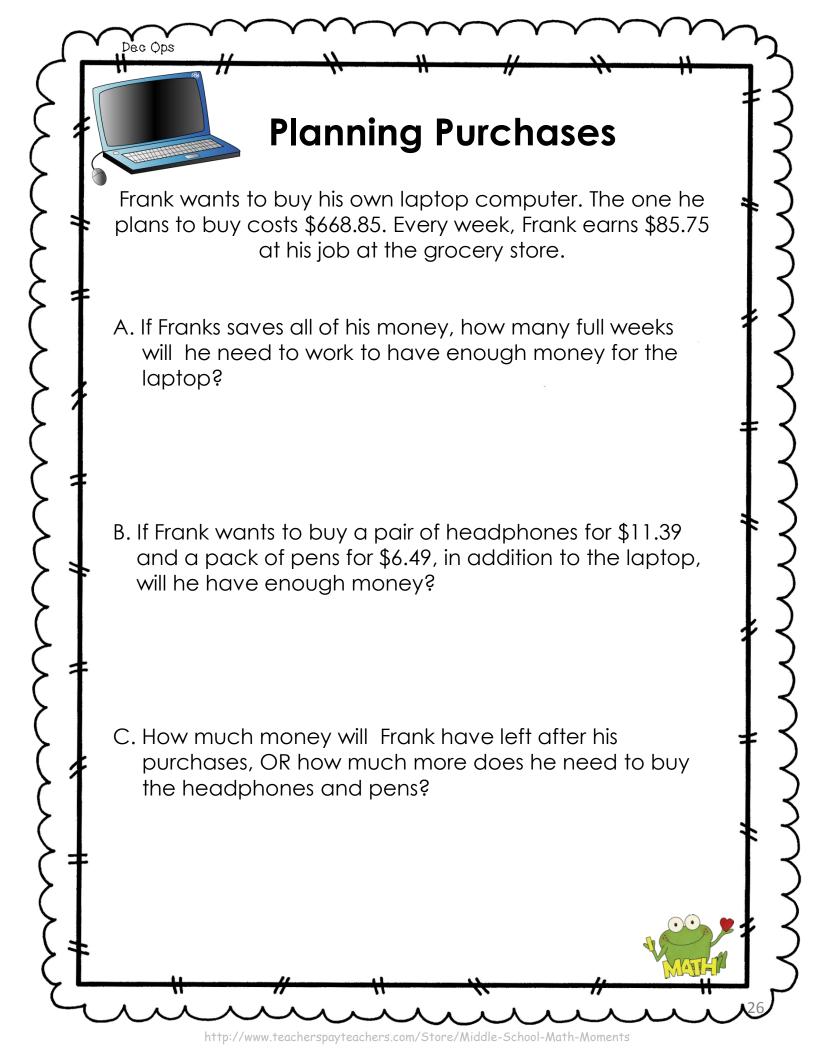
#### **Answer Sheet**

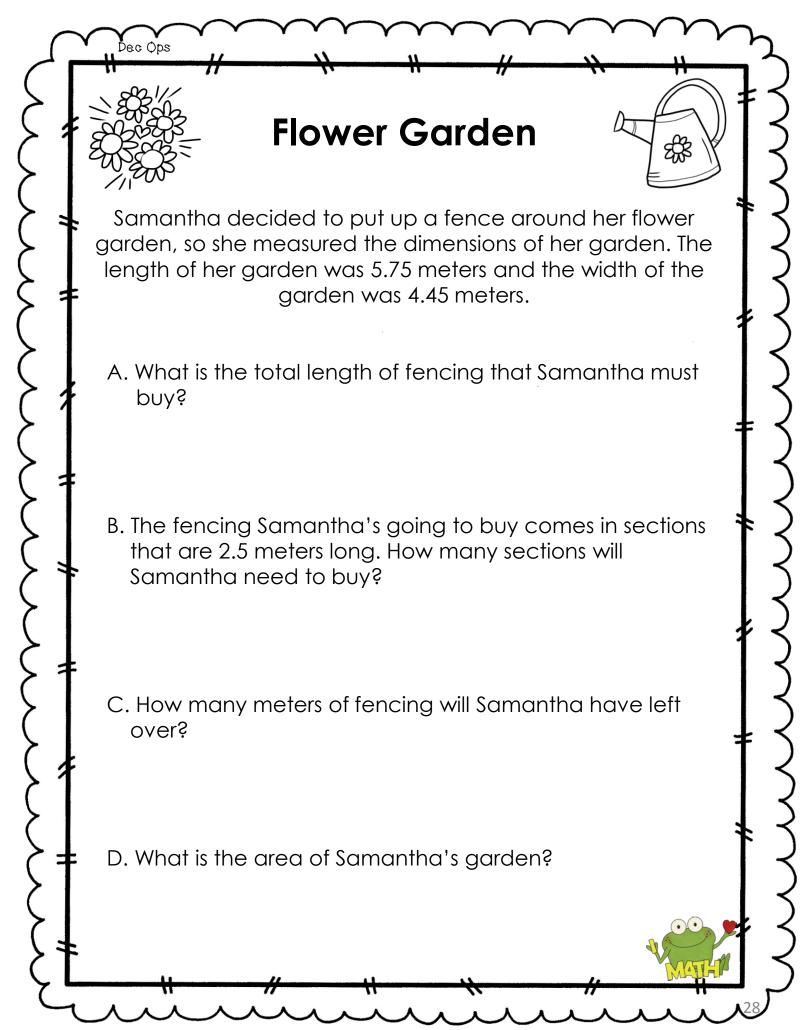
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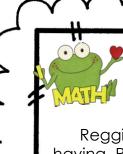
| Part A: |  |
|---------|--|
|         |  |
|         |  |
|         |  |
|         |  |
| Part B: |  |
|         |  |
|         |  |
|         |  |
|         |  |
|         |  |
| Part C: |  |
|         |  |
|         |  |
|         |  |
|         |  |
|         |  |











### **Party Planning!**

Reggie's mom has given him a budget of \$50 to buy food for a party he is having. Reggie is planning to have 5 friends at his party, and the party will last for 4 hours. He would like to have soda, chips, pretzels, ice cream, popcorn, and candy. He also wants to have a few healthy snacks like carrots and fruit. He needs to figure out which items he can actually purchase for the party.

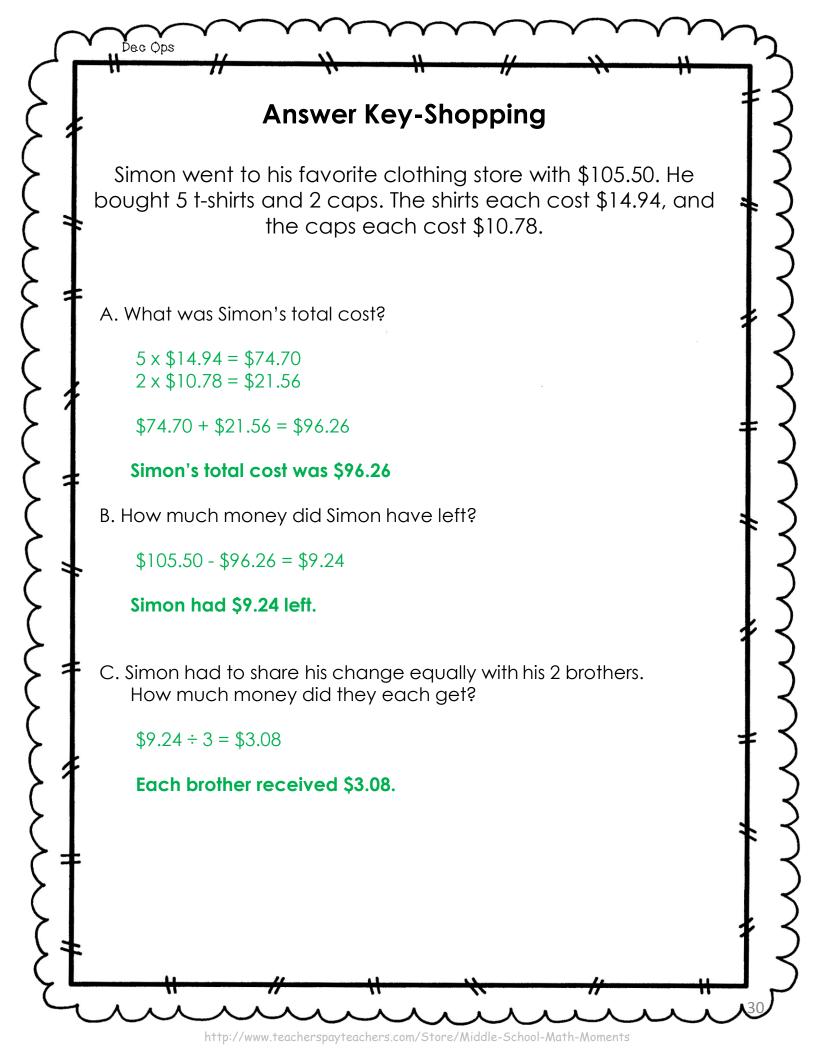
Reggie found some items on sale, and so he worked with these prices:

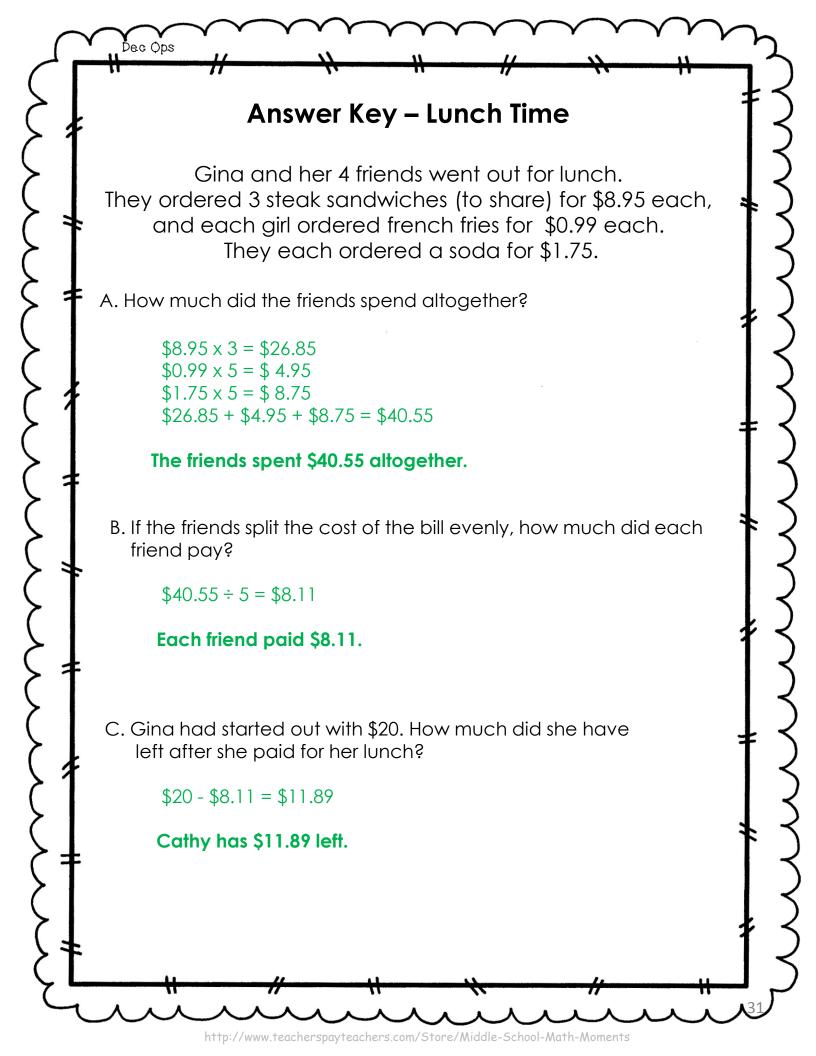
| 2- liter bottle of soda:         | \$0.99 |
|----------------------------------|--------|
| family size bag of chips:        | \$3.25 |
| family size bag of pretzels:     | \$2.99 |
| family size bag of popcorn:      | \$3.49 |
| family size bag of candy:        | \$4.25 |
| ½ gallon container of ice cream: | \$3.99 |
| bag of carrots (large):          | \$3.99 |
| bag of carrots (small):          | \$2.19 |
| fruit tray (large - feeds 12):   | \$9.99 |
| fruit tray (small - feeds 6):    | \$6.99 |

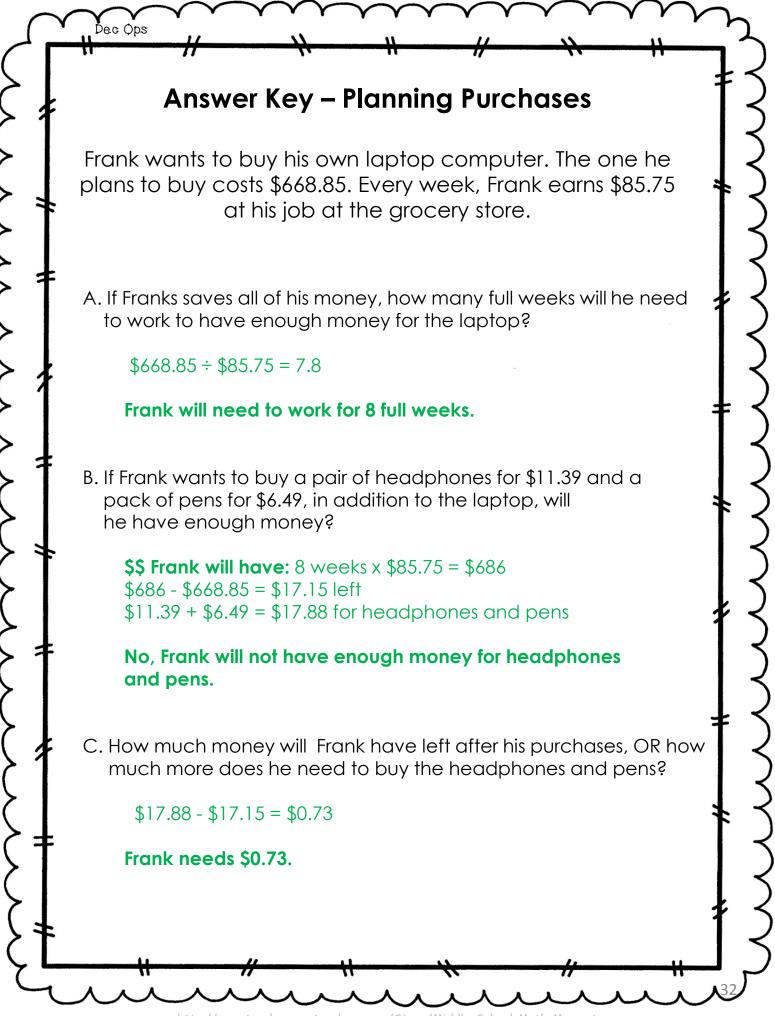
#### Complete the following:

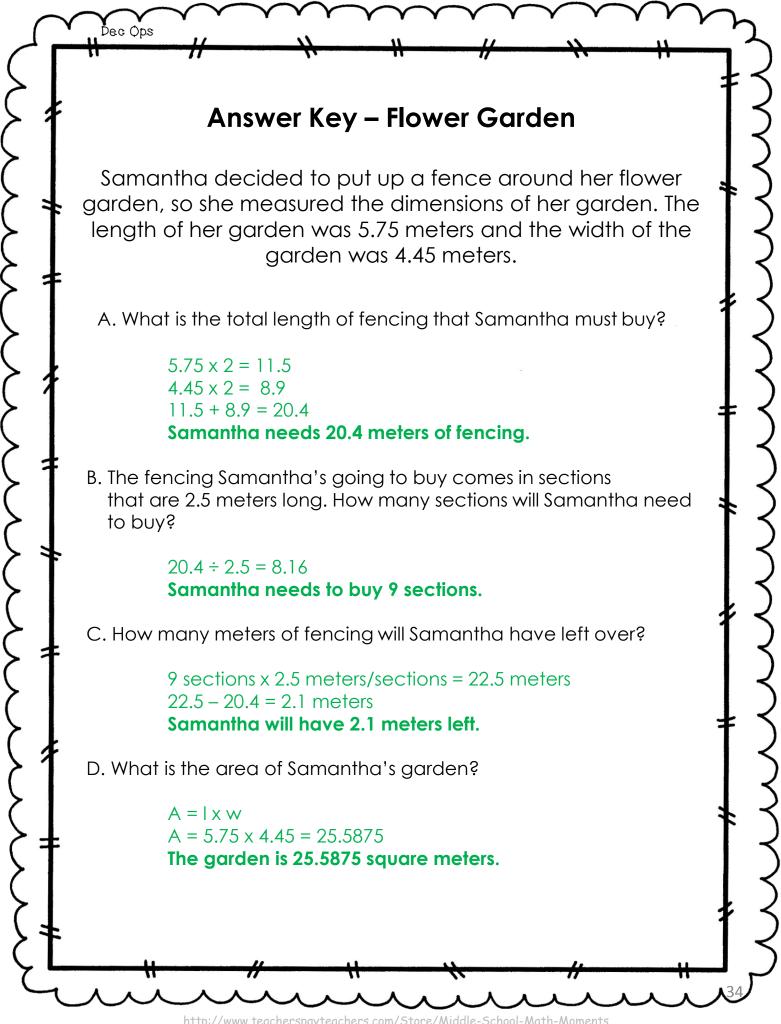
- 1) Find three different combinations of items that Reggie can purchase for his party (try to get close to the \$50 limit).
- 2) Include at least 4 different items from the price list.
- 3) List the items you have chosen for each combination.
- 4) Write the total cost for each combination. Remember, he can't spend more than \$50!

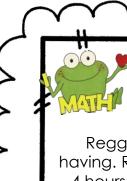
<u>Combination 1</u> <u>Combination 2</u> <u>Combination 3</u>











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|----------------------------------|--------|
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| family size bag of pretzels:     | \$2.99 |
| family size bag of popcorn:      | \$3.49 |
| family size bag of candy:        | \$4.25 |
| ½ gallon container of ice cream: | \$3.99 |
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| fruit tray (large - feeds 12):   | \$9.99 |
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#### Complete the following:

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<u>Combination 1</u> <u>Combination 2</u> <u>Combination 3</u>

Answers will vary.

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