

Name: \_\_\_\_\_

Week of: 1/25/16 – 1/29/16

Period: \_\_\_\_\_

**Directions:** The math problems on this sheet are due by Friday this week. It is broken into sections as a suggestion of how many problems you should complete each night for a manageable amount of work. You may work at your own pace as long as it is completed by Friday.

Write the prime factorization of each number.

1.  $30 =$  \_\_\_\_\_
2.  $40 =$  \_\_\_\_\_

Write the number that can be represented by the product.

3.  $2^4 \times 3^2 =$  \_\_\_\_\_
4.  $3^2 \times 5^2 =$  \_\_\_\_\_

5. Lynn wrote the prime factorization of 42 as  $1 \times 2 \times 21$ . It was marked incorrect.

What did she do wrong? \_\_\_\_\_

What is the correct prime factorization of 42?  
\_\_\_\_\_

Solve.

1. A restaurant charges \$1.15 for juice and \$3.90 for a vegetable sandwich. How much does a vegetable sandwich with juice cost in all?  
\_\_\_\_\_
2. Cam paid \$28.31 for 9.5 gallons of gasoline in June 2007. How much did he pay per gallon?  
\_\_\_\_\_
3. Lori is  $12 \frac{1}{4}$  years old. Her brother is  $7 \frac{1}{2}$  years old. What is the difference in their ages?  
\_\_\_\_\_
4. Misty needs  $2 \frac{5}{8}$  yards of material for one costume. She will make 12 costumes for the school play. How much material should she buy?  
\_\_\_\_\_
5. Sales tax is 6% in Rob's town. How much sales tax will he pay on a pair of shoes that cost \$41.50?  
\_\_\_\_\_

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Solve.

1. Crystal invested \$500 at 8% interest per year. How much interest will she have at the end of the year?  
\_\_\_\_\_
2. How much, including interest, will be in her account at the end of the year?  
\_\_\_\_\_
3. Phil and his friends paid \$28 for lunch. They want to leave a 15% tip. How much money should they leave? \_\_\_\_\_
4. Ms. Hobbs has  $6\frac{3}{4}$  pounds of Georgia pecans to share among 12 children. How much should each child receive? \_\_\_\_\_
5. A recipe calls for  $\frac{2}{3}$  cup of flour. Dan wants to make only half of what the recipe calls for. How much flour will he need? \_\_\_\_\_

Convert each measurement.

1.  $2\frac{1}{4}$  tons = \_\_\_\_\_ lbs
2. 5 pints = \_\_\_\_\_ c
3. 4 mi = \_\_\_\_\_ ft
4. The track surrounding the football field is  $\frac{1}{4}$  of a mile long. How many yards is the track?  
\_\_\_\_\_
5. One quart of strawberries weighs about 2 lbs. About how many quarts of strawberries would weigh  $\frac{1}{4}$  ton? \_\_\_\_\_