7.2 Solving Equations for Addition or Subtraction (online textbook pgs. 300-307)		
A) Name each inverse operation.	B) Tell whether the given value is a solution.	
x – 8 = 12 Inverse Operation	19 – <i>g</i> = 7; <i>g</i> = 15	
<i>b</i> + 14 = 33 Inverse Operation		
C) Solve the equation. Show the inverse operation.	D) Solve the equation. Show the inverse operation.	
1.2 = m – 2.5	m + 18 + 23 = 71	
E) An emperor penguin is 45 inches tall. It is 24 inches taller than a rockhopper penguin. Write and solve an equation to find the height of a rockhopper penguin.	F) You eat 8 blueberries and your friend eats 11 blueberries from a package. There are 23 blueberries left. Write and solve an equation to find the number of blueberries in a full package.	
Check your answer.	Check your answer.	
G) The area of Jamaica is 6460 square miles less than the area of Haiti. Jamaica is 4151 square miles in area. Write and solve an equation to find the area of Haiti.	H) You participate in a dance-a-thon fundraiser. After your parents pledge \$15.50 and your neighbor pledges \$8.75, you have \$66.55. Write and solve an equation to find how much money you had before your parents and neighbor pledged.	
Check your answer.	Check your answer.	

1.1 Whole Number Operations (online textbook pgs. 2-9)	
A) Find the value of the expression.	B) Find the value of the expression.
124 x 56	<u>588</u> 84
C) A store has 15 boxes of peaches. Each box contains 45 peaches. How many peaches does the store have?	D) A gardener works for 14 hours during a week and charges \$168. How much does the gardener charge for each hour?
E) A factory machine tests 1 out of every 75 items produced for quality. The machine requires a safety check after testing 450 items. The factory produces 303.750 items each month. How many safety checks	F) The sixth grade, which is divided into four classes, holds a fundraising competition. Which class raises the most money per student?
does the machine require each month?	Class A B C D
	Money raised \$450 \$425 \$560 \$390
A. 6	Students 30 25 35 30
B. 9	A. Class A
C. 50	B. Class B
D. 54	C. Class C
	D. Class D
G) Which number is equivalent to the expression (89)(46)?	H) What is the perimeter of the triangle below?
A. 880	A. 23 in.
	B. 33 in. 18 in.
B. 890	
C. 3094	C. 41 in.
D. 4094	D. 51 in. 15 in.
How can you check?	How do you know?

2.4 Adding and Subtracting Decimals (online textbook pgs. 78-83)	
A) Add.	B) Subtract.
3.7 + 2.774	25.82 – 22.936
C) Evaluate the expression.	D) Describe and correct the error.
16.5 – 13.45 + 7.293	9.5 <u>-7.18</u> 2.48
E) What is the value of	F) You order the sausage and eggs breakfast for
6.58 – 3.745 + 10.303 ?	\$4.35. How much is the bill before taxes and tip?
A. 12.138	
B. 13.138	
C. 13.148	
D. 14.148	
How could you check your answer?	
G) You work 1.05 hours on English homework and 0.75 hours on math homework. Your science	H) Which number is equivalent to 1.58 + 0.437?
homework takes 0.3 hours less than your math homework. How many hours do you work on	A. 0.595
homework?	B. 1.495
	C. 1.917
	D. 2.017
	How could you check your answer?

1.4 Prime Factorization (online textbook pgs. 2	24-29)
A) Describe composite numbers.	B) Use divisibility rules to determine whether the number is divisible by 2, 3, 5, 6, 9, and 10.
Describe prime numbers.	1620
C) List the factor pairs of the number.	D) Write the prime factorization of the number
54	84
E) Find the number represented by the prime factorization. $2^3 \bullet 11^2 \bullet 13$	F) A teacher divides 36 students into equal groups for a scavenger hunt. Each group should have at least 4 students but no more than 8 students. What are the possible group sizes?
How do you know?	How do you know?
G) Find the greatest perfect square that is a factor of the number.	H) What is the prime factorization of the number60?
650	A. $3 \bullet 4 \bullet 5$ B. $2^2 \bullet 3 \bullet 5$ C. $2 \bullet 3 \bullet 5$ D. $2 \bullet 3^2 \bullet 5$
How do you know?	How do you know?

1.5 Greatest Common Factor (online textbook pgs. 30-35)	
A) Find the GCF of 24 and 108.	B) Find the GCF of 36 and 81
C) Find the GCF of 30, 60, and 78.	D) Describe and correct the error in finding the GCF. $36 = 2^2 \cdot 3^2$ $60 = 2^2 \cdot 3 \cdot 5$ The GCF is $2 \cdot 3 = 6$
 E) An art teacher makes a supply package of red paper and green paper for each student in a class. There are 84 sheets of red paper and 96 sheets of green paper available for the packages. Each package is identical, using all of the paper. What is the greatest number of packs, and how many of each color paper are each pack? A. 6 pks with 14 sheets of red & 16 sheets of green B. 12 pks with 7 sheets of red & 8 sheets of green C. 12 pks with 12 sheets of red & 12 sheets of green D. 24 pks with 3 sheets of red & 4 sheets of green 	 F) You are creating identical coupon booklets to sell for a fundraiser. You have 32 food coupons, 80 gas coupons, and 47 movie coupons. Can you create multiple, identical coupon booklets using all of the coupons? Why or Why not? What if you find one more movie coupon?
G) The town administrators separate the 84 houses in a neighborhood into equal groups to do safety inspections. Which of the following groupings is not possible?	H) An architect is designing a house in which a 104- square-foot room and a 130-square-foot room share a wall. What is the greatest possible length of the shared wall?
A. Three groups of 26 houses	A. 8 ft.
B. Four groups of 21 houses	B. 13 ft.
C. Six groups of 14 houses	C. 26 ft.
D. Seven groups of 12 houses	D. 130 ft.
How do you know?	How do you know?

1.6 Least Common Multiple (online textbook p	ogs. 36-41)
A) Find the LCM of 6 and 10.	B) Find the LCM of 12 and 18.
C) Find the LCM of 6, 8, and 15.	D) Describe and correct the error in finding the LCM.
	6 x 9 = 54
	The LCM of 6 and 9 is 54.
E) Two huses are at a stop at the same time. The	F) Δ radio station gives away \$15 to every 15 th
northbound bus returns to the bus top every 20	caller, \$25 to every 25 th caller, and free concert
minutes, and the southbound bus returns every 25 minutes. How long will it be before both buses are	tickets to every 100 ¹¹¹ caller. When will the station first give away all three prizes to one caller?
at the stop at the same time.	
A. 50 minutes	
B. 100 minutes	
C. 200 minutes	
D. 500 minutes	How do you know?
How do you know?	
G) What is the least common multiple of 10 and 16?	H) Hot dogs come in packs of 10, while buns come in packs of eight. What are the least numbers of packs
	you should buy in order to have the same numbers of hot dogs and buns?
	How could you check your answer?

1.6 Extension – Adding	and Subtracting Fractic	ons (online textbook pgs. 42-43)
A) Find the Least Commor	Denominator of	B) Compare the mixed numbers (<, >, or =)
<u>3</u> <u>5</u> 4, 8	$\frac{1}{10}$	$4\frac{9}{25}$ $4\frac{7}{20}$
C) Subtract.		D) Add.
$1\frac{5}{6}$	$-\frac{3}{4}$	$4\frac{3}{16} + 1\frac{1}{10}$
E) The table below shows the ground at different tim inches of snow fell betwee	the amount of snow on nes of the day. How many n 8 A.M. and 10 A.M.?	F) The steps Bryce took incorrectly to subtract two mixed numbers are shown below. $7\frac{3}{2} \rightarrow 6\frac{13}{2}$
Time	Snow (inches)	8 8
8:00 A.M.	$3\frac{5}{8}$	$-4\frac{7}{8}$ $-4\frac{7}{8}$
10:00 A.M.	$4\frac{1}{2}$	
G) Subtract.	$-\frac{3}{4}$	H) You have piano lessons every fourth day and guitar lessons every sixth day. Today you have both lessons. In how many days will you have both lessons on the same day again?
		Explain.

7.3 Solving Equations for Multiplication or Division (online textbook pgs. 308-313)	
A) Solve the equation.	B) Solve the equation.
$\frac{s}{14} = 7$	$24 = \frac{3r}{4}$
C) Solve the equation.	D) Solve the equation.
72 = 6 <i>w</i>	3 <i>m</i> = 210
 E) A slush drink machine fills 1440 cups in 24 hours. Write and solve an equation to find the number <i>c</i> of cups the machine fills in one hour. 	 F) Harry earns \$56 for 8 hours of work. At that rate, how long would he have to work to earn \$763? A. 7 hours B. 13 hours C. 109 hours D. 95 hours. How do you know?
G) What value of x makes the equation true?	H) What is the value of h in the equation below?
$\frac{x}{8} = 16$	26 <i>h</i> = 208 A. 9 B. 5,408 C. 182
How do you know?	D. 8 Check your answer.

A) Multiply. B) 18.6 x 5.9 B)	3) Multiply. 6.478 x 18.21
18.6 x 5.9	6.478 x 18.21
C) Evaluate the expression. D)	D) Describe and correct the error in the solution.
23.98 − 1.7 ² ● 7.6	4.9 x 3.8 = 186.2
E) Multiply 2.5 x 3.5 x 0.01F) harA. 0.0625Th priB. 0.0875If t tC. 0.625A.D. 0.875A.Is there a different way you could solve this 	 a) Jenae goes to the store to buy a coat. The store is having a 30% off sale, and she has a \$10.00 coupon. The expression below can be used to find her final price for a coat with an original price of p dollars. 0.7p - 10 f the coat has an original price of p = \$87.99, what is he final price she will pay? A. \$51.59 A. \$51.59 C. \$71.59 D. \$84.99 A Chinese restaurant offers buffet takeout for 54.99 per pound. How much does your takeout neal cost when it weighs 0.65 pounds?

2.6 Dividing Decimals (online textbook pgs. 92-99)	
A) Divide.	B) Divide.
36.47 ÷ 0.7	34.2 ÷ 3.8
C) Divide. Round to the nearest hundredth.	C) Divide. Round to the nearest hundredth.
0.8 ÷ 0.6	11.6 ÷ 0.95
E) Solve. Round to the nearest hundredth. Frederic bought a candy bar for \$0.79 and 13.4 gallons of gas at Sheetz. He paid \$33.51. What was the price per gallon of gas?	 F) Aaron wants to buy 2 concert tickets that cost \$25.50 each. His father pays him \$4.25 an hour to rake leaves. How many hours does Aaron have to rake leaves to earn the total cost of the tickets? A. 1.2 B. 6 C. 12 D. 16.5 How do you know?
G) Beatrice bought 8 sandwiches for \$40.72. Each sandwich was the same price. What was the price, in dollars, of each sandwich?	 H) What is the value of the expression below? 0.08 ÷ 0.02 A. 0.0004 B. 0.04 C. 4 D. 400 Check your work

2.1 Multiplying Fractions (online textbook pgs. 54-61)		
A) Multiply.	B) Multiply.	
$\frac{5}{6} \times \frac{3}{15}$	$2\frac{1}{2}x\frac{14}{15}$	
C) Multiply.	D) Describe and correct the error.	
$5\frac{5}{7} \times 3\frac{1}{8}$	$2\frac{1}{2} \times 7\frac{4}{5} = (2 \times 7) + (\frac{1}{2} \times \frac{4}{5}) = 14 + \frac{2}{5} = 14\frac{2}{5}$	
E) Without calculating, is $1\frac{1}{6} \bullet \frac{4}{5}$ less than or greater than $1\frac{1}{6}$? Is the product less than or greater than $\frac{4}{5}$? Explain your reasoning.	F) For a Cub Scout meeting, the leader bought 4 pizzas, and $1\frac{1}{2}$ of the pizzas had pepperonis. The scouts ate $\frac{5}{6}$ of the pizzas that contained pepperoni. How many pizzas with pepperoni did the scouts eat? A. $\frac{1}{16}$ B. $\frac{1}{4}$ C. $\frac{5}{4}$ D. $\frac{10}{3}$	
G) Corey works for a landscaping company. On Tuesday, he fertilized 4 lawns. He used $2\frac{1}{3}$ bags of fertilizer on each lawn. How much fertilizer did Corey use?	H) A vitamin C tablet contains $\frac{1}{40}$ of a gram of vitamin C. You take $1\frac{1}{2}$ tablets every day. How many grams of vitamin C do you take every day?	
A. $2\frac{1}{3}$ B. $6\frac{1}{3}$ C. $8\frac{1}{2}$		
D. $9\frac{1}{3}$		

2.2 Dividing Fractions (online textbook pgs. 62	-69)
A) Divide. Write the answer in simplest form.	B) Divide. Write the answer in simplest form.
$\frac{4}{15} \div \frac{10}{13}$	$9 \div \frac{4}{9}$
C) Evaluate the expression. Write the answer in simplest form. $\frac{9}{16} \div \frac{3}{4} \bullet \frac{2}{13}$	D) Use a model to evaluate the quotient $\frac{1}{2} \div \frac{1}{6}$. Explain.
 E) Estimate. 18 gallons ÷ ³/₇ gallon A. about 16 B. about 9 C. about 4 D. about 36 	F) Zora has $\frac{2}{3}$ yard of ribbon. She cuts the ribbon into pieces for an art project. If each piece is $\frac{1}{6}$ yard long, how many pieces will she have? A. $\frac{1}{2}$ B. 18 C. 4 D. $\frac{1}{9}$
G) Which expression is equivalent to $\frac{4}{7} \div \frac{8}{15}$? A. $\frac{14}{15}$ B. $1\frac{1}{15}$ C. $1\frac{1}{14}$ D. $1\frac{14}{15}$	H) You use $\frac{1}{8}$ of your battery for every $\frac{2}{5}$ of an hour that you video chat. You use $\frac{3}{4}$ of your battery video chatting. How long did you video chat?

2.3 Dividing Mixed Numbers (online textbook pgs. 70-75)	
A) Divide. Write the answer in simplest form.	B) Divide. Write the answer in simplest form.
$7\frac{1}{2} \div 1\frac{9}{10}$	$3\frac{3}{4} \div 2\frac{1}{12}$
C) Divide. Write the answer in simplest form.	D) Describe and correct the error.
$13 \div 10\frac{5}{6}$	$3\frac{1}{2} \div 1\frac{2}{3} = 3\frac{1}{2} \div 1\frac{3}{2} = \frac{7}{2} \div \frac{5}{2} = \frac{35}{4} = 8\frac{3}{4}$
E) Alex and Payton each have a favorite recipe. Alex's recipe uses $7\frac{1}{2}$ cups of flour for 5 batches. Payton's recipe uses $\frac{3}{4}$ cup flour more per batch. Which expression can be used to show the number of cups of flour for x batches of Payton's recipe? A. $2\frac{1}{4}x$ B. $8\frac{1}{4}x$ C. $1\frac{1}{2}x + \frac{3}{4}$ D. $7\frac{1}{2}x + \frac{3}{4}$	 F) Emily is making bows using ribbon. She has two pieces of ribbon to use. One is 23 yards long. The other is 4 ¹/₄ yards long. She needs 1 ⁵/₆ yards of ribbon to make each bow. What is the greatest number of bows Emily can make? A. 12 B. 14 C. 15 D. 19
G) Divide $58\frac{1}{3} \div 6\frac{2}{3}$	H) The world's tallest living man is $8\frac{1}{4}$ feet tall and
A. $7\frac{3}{8}$	the world's shortest living man is $1\frac{3}{4}$ feet tall. How many times taller is the tallest living man?
B. $8\frac{3}{4}$	A. $4\frac{5}{7}$
C. $9\frac{2}{3}$	B. $8\frac{3}{16}$
D. $10\frac{1}{6}$	C. $8\frac{1}{3}$
	D. $14\frac{7}{16}$