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## WORKSHEET 2-15

Multiply and divide the following fractions. Cross cancel whenever possible. When dividing, remember to flip before you cancel.

1.  $\frac{8}{16} \times \frac{8}{10} =$

2.  $\frac{3}{48} \times \frac{6}{21} =$

3.  $\frac{7}{12} \times \frac{6}{10} =$

4.  $\frac{2}{10} \times \frac{5}{24} =$

5.  $\frac{8}{56} \div \frac{4}{7} =$

6.  $\frac{9}{64} \div \frac{3}{8} =$

7.  $\frac{5}{42} \div \frac{2}{6} =$

8.  $\frac{7}{35} \div \frac{1}{7} =$

9.  $\frac{3}{24} \div \frac{3}{6} =$

10.  $\frac{9}{27} \div \frac{3}{9} =$

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## CHAPTER 1 REVIEW TEST

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Solve the following problems. Reduce all answers down to the smallest denominator. Convert all improper fractions into mixed numbers.

1.  $\frac{1}{8} + 2\frac{3}{8} =$

2.  $3\frac{4}{6} + \frac{1}{5} =$

3.  $\frac{5}{8} - \frac{1}{16} =$

4.  $5\frac{5}{12} - 2\frac{3}{4} =$

5.  $2\frac{5}{8} \times 3 =$

6.  $3\frac{4}{8} \div 4 =$

7. I have a stack of baseball cards that measures  $\frac{1}{2}$  inch high. Your stack of baseball cards is  $\frac{1}{8}$  inch taller than mine. How tall is your stack of cards?

8. Brendon cut a sandwich into 8 pieces. John ate one of the pieces. How much of a sandwich does he have left?

9. There is a recipe for 4 dozen cookies on the next page. We want to make only 2 dozen, so we need to cut the recipe in half. Rewrite the amounts needed to make half the recipe.

$2\frac{1}{4}$  Cups of flour

- $\frac{3}{4}$  Cup sugar
- $\frac{1}{2}$  Cup brown sugar
- $\frac{2}{3}$  Cup butter
- 2 Eggs
- 1 Teaspoon baking soda
- $\frac{1}{3}$  Tablespoon salt
- $\frac{1}{4}$  Teaspoon vanilla

10. A newspaper costs  $\frac{8}{10}$  of a dollar. How much does it cost?
11. Kathy wants to hang a picture in the center of a wall. The wall measures  $37\frac{3}{4}$ " wide. She needs to find the center of the wall. Half of  $37\frac{3}{4}$ " would be the center. How far from the edge of the wall should Kathy measure, to make sure the nail is in the center of the wall?
12. Write a fraction to show what line the arrow is pointing to.



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## WORKSHEET 2-16

1. Fill in the blank boxes below.

Fraction	Decimal pt.	Percentage
$\frac{1}{2}$		50%
8/10	.80	
	.32	32%
1/100		1%
2/10	.2	
		99%
7/100		
	.33	
		10%

2. How much is 10% of a dollar?
3. Write 56 cents as a fraction. Reduce your answer.
4. Write  $\frac{1}{2}$  as a decimal number.
5. There are 342 jelly beans in a jar. 50% of them are blue. How many blue jelly beans are in the jar?
6. How many years are in a **century**?
7. How many **cents** are in a dollar?
8. What does the word **percent** mean?
9. There were 100 people in the room. 99 of them were under the age of 70. What percentage of the people in the room were over age 70?

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## WORKSHEET 2-17

How much is 10% of:

1. 100
2. 80
3. 75
4. 850
5. 962

How much is 25% of:

6. 100
7. 12
8. 40
9. 200
10. 16

11. Write .25 as a fraction. Reduce your answer.
12. Write .50 as a fraction. Reduce your answer.
13. Write one tenth as a percentage.
14. How much is 10% of 2,457?
15. How much is 10% of one million?
  
16. How much is 10% of a dollar?
17. Judy bought a case of ice tea. There are 10 bottles of tea in each case. She put 20% of them in the refrigerator. How many bottles did Judy put in the refrigerator?
18. Daryl went fishing. He caught 40 fish. 50% of the fish weighed over 10 pounds. How many fish weighed less than 10 pounds?
19. Marion took her dog out for a 2 hour walk. Marion's dog was on the leash 50% of the time. How long was her dog on a leash?
20. Chuck is 70 years old. He has lived in Seattle 50% of his life. How long has he lived in Seattle?

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## WORKSHEET 2-18

Use my method to find 20% of the following numbers. First, move the decimal point over one space, then double that number to get 20%.

1. 400
2. 300
3. 50
4. 100
5. 800
  
6. What is 10% of 200?
7. What is 20% of 300?
8. What is 30% of 400?
9. What is 40% of 100?
10. What is 50% of 220?
11. What is 60% of 300?
12. What is 75% of 320?
13. What is 80% of 800?
14. What is 90% of 1000?
15. What is 100% of a million?
16. The sign says all shoes are 40% off. The original price for the shoes you want to buy is \$35.00. How much will the shoes cost during the sale?
  
17. Stephen went to a restaurant. The total price for dinner was \$75.00. Stephen left a 20% tip. How much was the tip?
  
18. Eric painted his motorcycle helmet 3 different colors. There is green paint on 25% of the helmet. There is yellow paint on 50% of the helmet. What percentage of the helmet is white?
  
19. Mike bought a guitar at 50% off the regular price. The regular price was \$299.00. Approximately how much did Mike spend on his guitar?

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## WORKSHEET 2-19

1. What is 33% of 154?
2. 62% of 38 is what?
3. How much is 23% of 55?
4. What is 93% of 18?
5. What is 42% of 9?
6. I received 80% of the 1,045 votes. How many votes did I get?
  
7. Courtney was reading the reviews of 2 different video games. The first game, Flip-Flop, reported that 85% of the 432 people who played the game, liked it. The review of the other game, Tisk-Task, reported that 97% of the 40 people who played it, liked it. How many people liked each game? You will need to round your answer to the nearest whole number.
  
8. Chris received a paycheck of \$759.00. Here is how he spent it:  
  
15% was spent on his car, gas, and insurance.  
25% was spent on groceries.  
30% was put towards rent.  
10% went into his savings account.  
  
How much did he spend on each item above? What percentage of his check does he have left?
  
9. Cammy wanted to buy a pair of shoes. The brown shoes were regularly \$42.00, but she had a coupon for 15% off the regular price. The black pair of shoes were regularly priced at \$54.00, but they were on sale for 30% off the regular price. Which pair of shoes cost less?

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## CHAPTER 2 REVIEW TEST

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1. Fill in the empty boxes below making each row equal.

Decimal	Fraction	Percentage
.02		2%
.20	$\frac{1}{5}$	
.5		
		99%
	$\frac{33}{100}$	
.18		
1.10		

2. How much money is in the picture? Write your answer as a decimal number, a fraction, and as a percentage of a dollar.



\_\_\_\_\_   
 Decimal Number

\_\_\_\_\_   
 Fraction

\_\_\_\_\_   
 Percentage of a Dollar



## Chapter 2 Review Test page 2

3. What is 14% of 50?
4. How much is 29% of 600?
5. How much is 20% of 200?
6. How many decimal points are in the number one million, six-hundred thousand?
7. An hour is 60 minutes. How much is 20% of an hour?
8. What is 400% of 62?
9. 50 people showed up to the concert. 100% of the people were wearing the band's T-shirts. How many people were wearing the T-shirts?
10. Senior Citizens get 15% off on Wednesdays. Anita is a senior citizen and on Wednesday she saved \$15 dollars. Can you logically figure out how much Anita's items would have been without the discount?
11. Kahlum's monthly cell phone bill showed that he sent a total of 2,316 text messages. Annabelle received about 45% of the messages and Nina received around 33% of them. The rest of the messages were sent to Trent. Fill in the number of text messages each person received from Kahlum.

Annabelle: \_\_\_\_\_

Nina: \_\_\_\_\_

Trent: \_\_\_\_\_

Check your answers. If you got more than 2 wrong, read chapter 2 again.

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## WORKSHEET 2-20

1.  $14 + -10 =$
2.  $-15 + 30 =$
3.  $-40 + -40 =$
4.  $(-10) + (-20) =$
5.  $-45 + 25 =$
6.  $100 + -50 =$
7.  $-35 + -35 =$
8.  $25 + 25 =$
9.  $-25 + 25 =$
10.  $+30 + -60 =$
  
11. Sherry owes Mike \$500. She owes Eric \$600. How much money does Sherry have now?
12. Stephen gave Logan \$25.00. Logan owes his mom \$38.00. How much money does Logan have now?
13. Kaylie received \$55.00 for babysitting. She owes her brother \$5.00 and she owes her sister \$8.00. How much money does Kaylie have now?
14. My bank account had \$17.00 in it yesterday. I just went to the ATM and took out \$40.00. How much money is in my bank account now?
15. Yesterday, the temperature in Alaska was 7 degrees. Today it is 5 degrees below zero. How much colder is it today than yesterday?
16. Tia owes her dad \$10.00 and she owes her brother \$6.00. How much money does Tia have?

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## WORKSHEET 2-21

1.  $80 - -20 =$

2.  $-40 - 20 =$

3.  $-10 - -10 =$

4.  $-25 - -5 =$

5.  $100 - -5 =$

6.  $100 - 50 =$

7.  $-100 - -80 =$

8.  $-10 - 5 =$

9.  $-25 - 25 =$

10.  $-32 - -104 =$

11.  $-\frac{7}{8} + -\frac{1}{8} =$

12.  $\frac{7}{12} - -\frac{2}{24} =$

13.  $-\frac{2}{5} - -\frac{4}{15} =$

14.  $-\frac{2}{9} + \frac{1}{2} =$

15.  $-4\frac{3}{5} - 2\frac{1}{3} =$

16.  $5\frac{1}{2} + -2\frac{4}{7} =$

17.  $-3\frac{5}{8} - -3 =$

18.  $-.03 + -.63 =$

If you made any mistakes, learn from them or read this chapter again. You shouldn't continue unless you understand adding and subtracting negative and positive numbers completely.

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## WORKSHEET 2-22

1.  $-3 \times 3 =$

2.  $5 \times -5 =$

3.  $-7 \times -2 =$

4.  $8 \times -5 =$

5.  $-9 \times -6 =$

6.  $10 \times -3 =$

7.  $-4 \times -6 =$

8.  $-1 \times -1 =$

9.  $-2 \times 1 =$

10.  $-3 \times 8 =$

11.  $\frac{1}{3} \times -\frac{1}{4} =$

12.  $-\frac{3}{5} \times \frac{5}{6} =$

13.  $-1\frac{3}{7} \times -3\frac{1}{4} =$

14.  $-6 \times \frac{5}{8} =$

15.  $-3\frac{7}{8} \times -5 =$

16.  $3\frac{3}{4} \times -4\frac{1}{2} =$

17.  $-1.55 \times 7.2 =$

18.  $-3.007 \times -6.4 =$

19.  $9.1 \times -.05 =$

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## WORKSHEET 2-23

1.  $10 \div -5 =$

2.  $-56 \div -7 =$

3.  $-49 \div 7 =$

4.  $64 \div -8 =$

5.  $28 \div -4 =$

6.  $-81 \div -9 =$

7.  $36 \div -2 =$

8.  $-48 \div -8 =$

9.  $-144 \div -12 =$

10.  $44 \div 11 =$

11.  $-\frac{2}{3} \div -\frac{4}{5} =$

12.  $1\frac{1}{4} \div -\frac{1}{3} =$

13.  $-3\frac{1}{8} \div -2\frac{4}{8} =$

14. Mick had some custom T-shirts made for his band. The shirts cost \$96.00. Mick and the band only saved up \$78 for the shirts. After he pays for the shirts, how much money will the band have?

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CHAPTER 3 REVIEW TEST

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1.  $-9 + 14 =$       2.  $-43 + -81 =$       3.  $90 + -45 =$

4.  $-1.05 + 9.6 =$       5.  $-\frac{3}{5} + -\frac{2}{10} =$       6.  $432 - 987 =$

7.  $-17 - -5 =$       8.  $-23 - 14 =$       9.  $104 - 16 =$

10.  $-4\frac{1}{2} - -3\frac{1}{3} =$       11.  $5\frac{1}{8} - -2\frac{1}{4} =$       12.  $.023 - 5.2 =$

13.  $-5 \times 8 =$       14.  $7 \times -3 =$       15.  $-10 \times -90 =$

16.  $\frac{7}{8} \times -\frac{5}{6} =$       17.  $32.16 \times -3 =$       18.  $-14 \times \frac{1}{2} =$

19.  $-75 \div -3 =$       20.  $-150 \div 2 =$       21.  $56 \div -7 =$

22.  $\frac{7}{12} \div -\frac{2}{3} =$       23.  $-\frac{6}{24} \div -\frac{18}{24} =$       23.  $-1008 \div 9\frac{3}{9} =$

24. Keep track of Melodee's money. She received \$100 for her birthday. She spent \$41.39 at the store. She went to the gas station and spent \$44.91 putting gas in her car. She received \$25.00 for babysitting and gave her little brother \$5.00 for washing her car. How much money does Melodee have left?

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## FINAL TEST

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Solve the following fraction problems. Reduce your answers to the smallest denominator possible and convert any improper fractions into mixed numbers.

1.  $2\frac{3}{8} + 3\frac{19}{24} =$

2.  $4\frac{3}{7} - 5\frac{4}{8} =$

3.  $6\frac{3}{4} \times -7\frac{1}{4} =$

4.  $-4\frac{1}{12} \div -\frac{21}{36} =$

5. Which fraction is bigger? Cross multiply and then use a *< or >* sign.

$$\frac{32}{44} \quad \text{—} \quad \frac{48}{55}$$

6. Chris bought a bag of chocolate candies. The bag had 20 pieces of candy in it. Chris gave Nick 5 of the pieces and he gave Tony 8 of the pieces.

- a. Write a fraction that shows how much of the bag he gave to Nick.
- b. Write a percentage to show how much of the bag he gave to Tony.
- c. Write a decimal number to show how much of the candy Chris has left.  
(Hint: write a fraction and then divide the numbers).

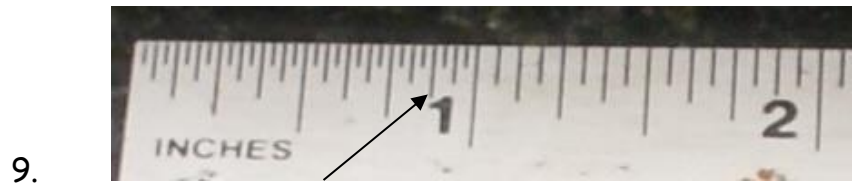
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FINAL TEST page 2

7. Fill in the empty box to make all values equal.

Decimal number	Fraction	Percentage
	$\frac{26}{26}$	

Find the arrow and name the measurement:





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FINAL TEST page 3

12. Jessi wants to fill a baby bottle for Annabelle. The directions say to use 1 fluid ounce of the powdered mix and 8 fluid ounces of water. Jessi only has a tablespoon to use for measuring. How many tablespoons of each ingredient should Jessi use?
13. Name 4 units of measurement used to measure length. Arrange them in order from smallest to biggest.
14. Name 7 units of measurement used to measure liquids or space. Arrange them in order from smallest to biggest.
15. Name 3 units of measurement used to measure weight. Arrange them in order from the smallest to biggest.
16. What is 30% of 12?
17. What is 23% of 90?
18. Stephen sells used cars. Every time he sells a car, he earns 12% of the price of the car. Stephen sold a car for \$7,225. How much will he be paid?
19. Many lawn mowers run with gas and oil mixed together. The directions say to mix the gas and oil at a rate of 32 to 1. That means you need to add 1 unit of oil for every 32 units of gas. Sherry wants to add oil to 1 quart of gas. How much oil should she add?

If you got 100% correct on the Final Test, congratulations you are ready for pre-algebra. If you missed more than 2, I strongly encourage you to read this chapter again. Or at least learn from your mistakes.