WORKSHEET 2-1

1. Which of the following are fractions?

    $$36 \qquad 42.9 \qquad \frac{2}{5} \qquad 0 \qquad \frac{1}{100}$$

2. A dime is $\frac{1}{10}$ of a dollar and a quarter is $\frac{1}{4}$ of a dollar. Can you write a fraction for one penny?

3. What does the number on the bottom of a fraction mean?

4. Give a number that is equal to $\frac{25}{25}$.

5. Write a fraction of a dollar that equals 2 dimes.

6. Write the fraction that represents the picture below.

7. Write a fraction that equals 1.

8. I bought a pack of gum. There were 10 pieces in the pack. I gave my sister 3 of the pieces. Write a fraction that shows how much gum I have left in the pack.

9. Which fraction is bigger? Use a $< or >$ sign.

    $$\frac{1}{4} \; \underline{\qquad} \; \frac{1}{100}$$

10. Write a fraction that stands for 3 cents.

WORKSHEET 2-2

Add the following fractions.

1. $\frac{3}{8} + \frac{3}{8} =$ 2. $\frac{5}{21} + \frac{9}{21} =$

3. $\frac{1}{4} + \frac{2}{4} =$ 4. $\frac{3}{10} + \frac{4}{10} =$

5. $\frac{5}{12} + \frac{4}{12} =$ 6. $\frac{1}{5} + \frac{3}{5} =$

7. $\frac{8}{32} + \frac{18}{32} =$ 8. $\frac{3}{6} + \frac{3}{6} =$

9. $\frac{4}{16} + \frac{7}{16} =$ 10. $\frac{3}{14} + \frac{5}{14} =$

11. $\frac{11}{44} + \frac{11}{44} =$ 12. $\frac{3}{27} + \frac{4}{27} =$

13. $\frac{2}{9} + \frac{4}{9} =$ 14. $\frac{18}{48} + \frac{16}{48} =$

15. $\frac{4}{15} + \frac{3}{15} =$ 16. $\frac{8}{24} + \frac{4}{24} =$

17.   1/4 + 2/4 =   18.   3/12 + 4/12 =   19.   4/10 + 2/10 =

20.   1/3 + 2/3 =   21.   5/16 + 3/16 =   22.   3/8 + 3/8 =

23.   3/7 + 2/7 =   24.   6/32 + 8/32 =   25.   7/14 + 2/14 =

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WORKSHEET 2-3

1. Circle the fraction that is equal to $\frac{1}{2}$.

    $\frac{4}{6}$ $\frac{6}{6}$ $\frac{3}{6}$ $\frac{2}{6}$

2. Which fraction is a bigger amount? Use a $<$ or $>$ sign.

    $\frac{9}{10}$ $\frac{3}{10}$

3. Write a math problem using fractions that means "four eighths plus three eighths."

4. I have a deck of cards. This deck has 52 cards. I want to separate the cards into 4 equal piles. Write a fraction that shows how much of the deck is in each pile.

5. I have one dozen eggs. One dozen is 12 eggs. I cooked 5 of the eggs. Write a fraction that shows how much of the dozen is left.

6. Look at the fraction below. Which number is the denominator?

    $\frac{3}{8}$

7. Look at the fraction above. Which number is the numerator?

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WORKSHEET 2-4

1. $\dfrac{2}{5} + \dfrac{3}{10} =$ 2. $\dfrac{3}{8} + \dfrac{3}{24} =$

3. $\dfrac{5}{12} + \dfrac{3}{6} =$ 4. $\dfrac{2}{4} + \dfrac{3}{8} =$

5. $\dfrac{5}{22} + \dfrac{1}{11} =$ 6. $\dfrac{8}{14} + \dfrac{1}{7} =$

7. $\dfrac{2}{3} + \dfrac{1}{4} =$ 8. $\dfrac{1}{5} + \dfrac{1}{2} =$

9. $\dfrac{1}{4} + \dfrac{7}{16} =$ 10. $\dfrac{2}{7} + \dfrac{2}{3} =$

11.   In January, Josh grew three eighths of an inch. In February he grew one fourth of an inch. How much did he grow all together in those two months?

12.   Write and solve a math problem using fractions to add one dime and seven pennies.

13.   Carrie ate five eighths of the pizza. Anita ate six sixteenths of the pizza. Is there any pizza left?

14.   Which fraction is bigger? Use a $<$ *or* $>$ sign. $\dfrac{2}{100}$ $\dfrac{7}{8}$

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<u>WORKSHEET 2-5</u>

Reduce the following fractions down to the smallest denominator possible.

1. $\dfrac{3}{21}$ $=$ $-$

   $\div 3 =$

   $\div 3 =$

2. $\dfrac{4}{12}$ $=$ $-$

   $\div ? =$

   $\div ? =$

3. $\dfrac{3}{9}$ $=$ $-$

4. $\dfrac{50}{100} =$

5. $\dfrac{5}{25} =$

6. $\dfrac{28}{49} =$

WORKSHEET 2-6

Find each measurement.

1.

2.

3.

4.

5.
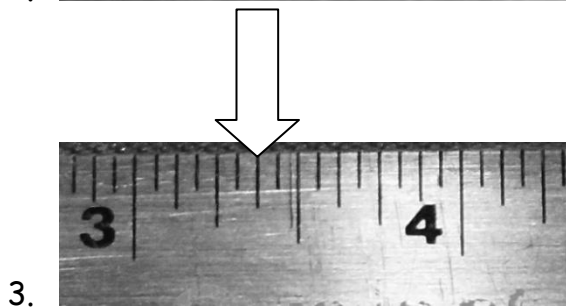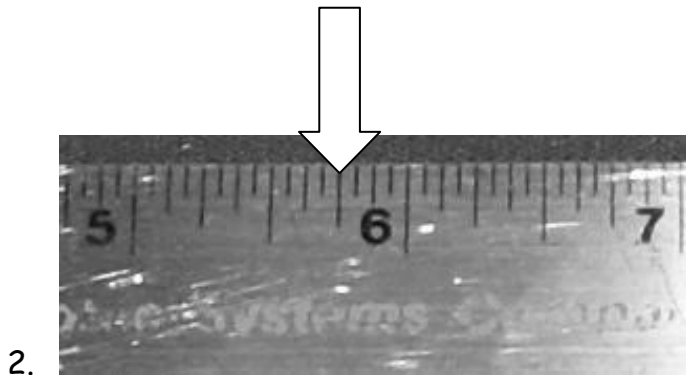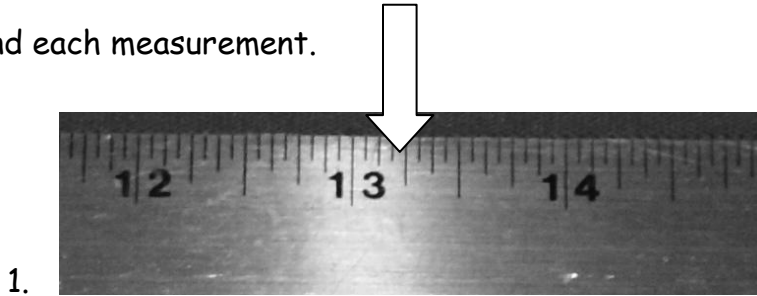
Name: _____   Date: _____

WORKSHEET 2-7

Subtract the following fractions. If the denominators aren't the same, find a common denominator. Make sure to reduce each of your answers down to the smallest denominator possible.

1. $\dfrac{8}{24} - \dfrac{2}{24} =$

2. $\dfrac{9}{36} - \dfrac{3}{36} =$

3. $\dfrac{5}{8} - \dfrac{3}{8} =$

4. $\dfrac{10}{16} - \dfrac{2}{16} =$

5. $\dfrac{12}{32} - \dfrac{4}{32} =$

6. $\dfrac{9}{45} - \dfrac{4}{45} =$

7. $\dfrac{8}{10} - \dfrac{1}{3} =$

8. $\dfrac{3}{4} - \dfrac{1}{5} =$

9. $\dfrac{2}{3} - \dfrac{2}{7} =$

10. $\dfrac{15}{16} - \dfrac{3}{4} =$

11.   I drew a line with a big marker. The line was $\dfrac{1}{4}$ inch wide. I drew another line next to it; making it twice as thick. How thick is the line now?

12.   We planted grass two weeks ago. On Monday, the grass was $\dfrac{3}{8}$ inches tall. The following Monday, it measured $\dfrac{15}{16}$ inches tall. How much did the grass grow during that week?

WORKSHEET 2-8

Solve the following problems. Reduce your answer to the smallest denominator possible.

1. $\frac{1}{5} + \frac{2}{10} =$

2. $\frac{3}{6} + \frac{4}{8} =$

3. $\frac{1}{4} + \frac{6}{8} =$

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

5. $\frac{5}{6} - \frac{20}{120} =$

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

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

8. $\frac{30}{60} - \frac{20}{40} =$

9. Tina is making some cookies. The recipe calls for one half cup of sugar. She only has one quarter cup of sugar. How much more sugar does she need to make the cookies?

10. Carrie was trying to find one dozen colored eggs. One dozen equals 12 eggs. So far she has found 9 of them. Write a fraction that shows how much of the dozen she has left to find.

Cross multiply and then use a $<$ or $>$ sign to say which fraction is bigger.

11. $\frac{5}{8}$ $\frac{7}{12}$

12. $\frac{7}{9}$ $\frac{6}{7}$

13. $\frac{3}{4}$ $\frac{6}{8}$

WORKSHEET 2-9

Multiply or divide the following fractions.

1. $\dfrac{4}{8} \times \dfrac{2}{1} =$ 2. $\dfrac{4}{8} \div \dfrac{2}{1} =$

3. $\dfrac{1}{10} \times \dfrac{5}{1} =$ 4. $\dfrac{1}{4} \div \dfrac{2}{3} =$

5. $\dfrac{3}{4} \times \dfrac{3}{7} =$ 6. $\dfrac{2}{6} \div \dfrac{4}{5} =$

7. I stacked up 4 pieces of wood. Each piece is $\frac{1}{8}$ inch thick. How tall is the stack of wood? (one eighth times four)

8. Divide two fifths by three fourth.

9. Multiply. $\dfrac{3}{5} \times \dfrac{1}{4} =$

   Next, divide your answer by $\dfrac{1}{4}$.

   Reduce your answer. The new answer should be $\dfrac{3}{5}$.

To find half of any number, multiply it by $\dfrac{1}{2}$ or divide by 2.

10. How much is one half of $\dfrac{3}{4}$?

11. How much is one half of $\dfrac{7}{8}$?

12. Write and solve a math problem using fractions to prove that one half of two is one.

WORKSHEET 2-10

Convert each mixed number into an improper fraction.

1. $4\frac{5}{8}$

2. $2\frac{3}{4}$

3. $1\frac{7}{10}$

4. $6\frac{8}{20}$

5. $8\frac{1}{3}$

6. $5\frac{6}{9}$

7. $3\frac{2}{11}$

8. $7\frac{1}{5}$

Convert each improper fraction into a mixed or whole number.

9. $\frac{10}{8}$

10. $\frac{21}{10}$

11. $\frac{22}{7}$

12. $\frac{26}{5}$

13. $\frac{400}{12}$

14. $\frac{386}{3}$

15. $\frac{200}{10}$

16. $\frac{3}{1}$

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WORKSHEET 2-11

Add the following mixed numbers.

1. $5\frac{2}{8} + 4\frac{3}{8} =$ 2. $2\frac{6}{12} + 6\frac{5}{12} =$

3. $3\frac{3}{16} + 3\frac{2}{16} =$ 4. $5\frac{4}{10} + 3\frac{1}{5} =$

5. $4\frac{7}{8} + 3\frac{1}{16} =$ 6. $18\frac{2}{5} + 3\frac{5}{25} =$

7. $7\frac{8}{32} + 5\frac{7}{8} =$ 8. $11\frac{8}{48} + 9\frac{21}{24} =$

9. Jennifer poured $1\frac{1}{2}$ cups of sand into a bucket. Jessi added $\frac{3}{4}$ cups of sand to the bucket. How much sand is in the bucket now?

10. There are two books stacked up on the table. One book measures $1\frac{7}{8}$ inches. The other book is $1\frac{5}{16}$ inches tall. How tall is the stack of two books?

11. Pat kicked the ball $36\frac{1}{3}$ feet. Lynda kicked the ball $4\frac{3}{4}$ feet farther. How far did Linda kick the ball?

12. Maggi worked three days last week. On Monday, she worked $5\frac{1}{2}$ hours. On Wednesday, she worked $6\frac{3}{4}$ hours. On Friday, she worked $7\frac{1}{4}$ hours. How many hours did she work last week?

13. When Debbie got her puppy, he was $7\frac{5}{8}$ inches tall. Since then he has grown $2\frac{3}{4}$ inches more. How tall is the puppy now?

WORKSHEET 2-12

Subtract the following mixed numbers.

1. $7\frac{3}{8} - 5\frac{1}{8} =$　　　　　　　　2. $9\frac{2}{3} - 3\frac{1}{3} =$

3. $20\frac{5}{7} - 15\frac{1}{3} =$　　　　　　4. $14\frac{1}{2} - 6\frac{1}{8} =$

5. $11\frac{9}{16} - 6\frac{1}{2} =$　　　　　　6. $14\frac{3}{4} - 8\frac{7}{24} =$

7. $9\frac{2}{3} - 3\frac{1}{3} =$　　　　　　　8. $15\frac{1}{4} - 9\frac{5}{8} =$

9.   Yesterday there was $4\frac{1}{8}$ inches of rain in the rain gauge. Today it measures $5\frac{3}{16}$ inches of rain. How much did it rain in the last day?

10.   Last year our apple tree was $8\frac{1}{4}$ feet tall. This year the apple tree is $10\frac{1}{2}$ feet tall. How much did the tree grow during the last year?

11.   Linda kicked the ball $44\frac{5}{12}$ feet. Pat kicked the ball $41\frac{1}{12}$ feet. How much farther did Linda kick the ball than Pat?

12.   Teresa added $1\frac{1}{3}$ cups of water to the fish bowl. Now the fish bowl has a total of $22\frac{1}{2}$ cups of water. How much water was in the bowl before Teresa added water?

13.   The first song on the CD was $3\frac{1}{4}$ minutes long. The entire CD was 45 minutes long. How long were the remaining songs?

WORKSHEET 2-13

Multiply the following mixed numbers.

1. $3\frac{4}{7} \times 2\frac{3}{10} =$

2. $2\frac{9}{10} \times 4\frac{3}{8} =$

3. $4\frac{1}{3} \times 3\frac{7}{8} =$

4. $10\frac{1}{2} \times 3\frac{1}{3} =$

5. $8 \times 3\frac{6}{10} =$ Hint: $8 = \frac{8}{1}$

To find one half of any number, multiply it by $\frac{1}{2}$.

6. How long is $\frac{1}{2}$ of $4\frac{5}{8}$ miles?

7. How much is $\frac{1}{2}$ of $\frac{1}{2}$?

8. How much is $\frac{1}{2}$ of $3\frac{7}{8}$?

9. I taped 3 small pieces of paper together, to make one long piece of paper. Each piece of paper was $5\frac{3}{4}$ inches long. How long is the paper now that the 3 pieces are taped together?

10. Sherry wants to put 3 photographs onto 1 page of her scrapbook. Each picture is $2\frac{1}{8}$ inches long. The page is 7 inches long. Will all 3 pictures fit on 1 page?

WORKSHEET 2-14

1. $2\frac{1}{11} \div 4\frac{5}{8} =$

2. $4\frac{4}{9} \div 1\frac{3}{5} =$

3. $2\frac{1}{12} \div 3\frac{2}{7} =$

4. $3\frac{3}{8} \div 5\frac{2}{9} =$

5. $44 \div \frac{3}{11} =$

To find half of any number, you can divide by 2, or $\frac{2}{1}$.

6.   Brianna wants to hang a picture in the center of the wall. The wall measures $8\frac{1}{4}$ feet wide. To find the center of the wall, she needs to find the half way point. What is half of $8\frac{1}{4}$ feet?

7.   Tia is making some cookies. The recipe will make 48 cookies. Tia only wants to make 24 cookies, so she is only using half the amount of each ingredient. The recipe calls for $2\frac{1}{4}$ cups of flour. How much flour should Tia use?

8.   Austin wants to make as many plaster molds as he can. Each mold needs $\frac{1}{4}$ cup of plaster. He has $3\frac{3}{4}$ cups of plaster. How many molds can he make?