

**5<sup>th</sup> Grade Math**

**Fractions**

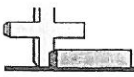
**Packet #9**

**Intro to Volume**

**Review: Division Whole # & Unit Fractions**

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

**Classwork Due: Friday, January 26<sup>th</sup>!!!**



Reduce each fraction as much as possible.

Ex)  $\frac{5}{40} = \frac{1}{8}$

1)  $\frac{4}{16} = \underline{\hspace{1cm}}$

2)  $\frac{5}{20} = \underline{\hspace{1cm}}$

3)  $\frac{6}{9} = \underline{\hspace{1cm}}$

4)  $\frac{2}{4} = \underline{\hspace{1cm}}$

5)  $\frac{2}{16} = \underline{\hspace{1cm}}$

6)  $\frac{24}{32} = \underline{\hspace{1cm}}$

7)  $\frac{3}{6} = \underline{\hspace{1cm}}$

8)  $\frac{8}{12} = \underline{\hspace{1cm}}$

9)  $\frac{15}{24} = \underline{\hspace{1cm}}$

10)  $\frac{21}{56} = \underline{\hspace{1cm}}$

11)  $\frac{10}{60} = \underline{\hspace{1cm}}$

12)  $\frac{49}{56} = \underline{\hspace{1cm}}$

13)  $\frac{7}{56} = \underline{\hspace{1cm}}$

14)  $\frac{3}{12} = \underline{\hspace{1cm}}$

15)  $\frac{5}{15} = \underline{\hspace{1cm}}$

16)  $\frac{9}{72} = \underline{\hspace{1cm}}$

17)  $\frac{15}{18} = \underline{\hspace{1cm}}$

18)  $\frac{20}{32} = \underline{\hspace{1cm}}$

19)  $\frac{6}{16} = \underline{\hspace{1cm}}$

20)  $\frac{50}{80} = \underline{\hspace{1cm}}$

**Answers**

Ex.  $\frac{1}{8}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

16

Name \_\_\_\_\_

Date \_\_\_\_\_

Dividing whole numbers by unit fractions

Class \_\_\_\_\_

**Directions:** Solve. Draw a picture or use a thought bubble to solve difficult problems. Remember to think of division of "has how many." See example for help.

Example 1) (Thought bubble)  $2 \div \frac{1}{3} = \dots\dots$  If  $1 \div \frac{1}{3} = 3$ , then  $2 \div \frac{1}{3} = 6$ .

Example 2) (Draw a picture)  $3 \div \frac{1}{4} = 20$

3)  $7 \div \frac{1}{5} =$

4)  $20 \div \frac{1}{10} =$

5)  $12 \div \frac{1}{2} =$

6)  $18 \div \frac{1}{3} =$

7)  $18 \div \frac{1}{6} =$

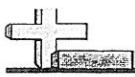
8)  $10 \div \frac{1}{4} =$

9)  $15 \div \frac{1}{9} =$

10)  $36 \div \frac{1}{4} =$

11)  $8 \div \frac{1}{3} =$

12)  $5 \div \frac{1}{8} =$



Solve each problem.

- 1) A builder had several boxes of nails that were partially full.



$\frac{1}{7}$



$\frac{6}{7}$



$\frac{5}{7}$



$\frac{4}{7}$



$\frac{5}{7}$

If he reorganized the nails so each box had the same quantity, how full would each box be?

- 2) Look at the weight of the boxes below.



$\frac{5}{8}$



$\frac{7}{8}$



$\frac{1}{8}$



$\frac{6}{8}$



$\frac{1}{8}$



$\frac{2}{8}$



$\frac{3}{8}$

If you were to redistribute the material in the boxes so that each box had the same weight, how much would each weigh?

- 3) The bags of candy below are fractions of a pound.



$\frac{6}{8}$



$\frac{4}{8}$



$\frac{3}{8}$



$\frac{3}{8}$



$\frac{3}{8}$



$\frac{4}{8}$

If you were to redistribute the candy so that each bag had the same amount, how much would be in each?

- 4) At a party, cups were filled with different amounts of soda.



$\frac{3}{6}$



$\frac{2}{6}$



$\frac{5}{6}$



$\frac{1}{6}$



$\frac{1}{6}$



$\frac{5}{6}$



$\frac{5}{6}$



$\frac{3}{6}$



$\frac{2}{6}$

If the soda had been poured into the cups evenly, how much would be in each cup?

- 5) The pitchers below have different amounts of water in them.



$\frac{2}{4}$



$\frac{1}{4}$



$\frac{3}{4}$



$\frac{1}{4}$



$\frac{1}{4}$



$\frac{3}{4}$



$\frac{1}{4}$



$\frac{1}{4}$

If you were to redistribute the water so that each pitcher had the same amount, how much would be in each?

Answers

1. \_\_\_\_\_

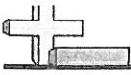
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_





Solve each problem. Write your answer as a mixed number (if possible).

Answers

1)  $\frac{1}{2} \div 9 =$

2)  $9 \div \frac{1}{4} =$

3)  $\frac{1}{2} \div 9 =$

4)  $4 \div \frac{1}{3} =$

5)  $\frac{1}{4} \div 9 =$

6)  $8 \div \frac{1}{2} =$

7)  $\frac{1}{5} \div 8 =$

8)  $9 \div \frac{1}{2} =$

9)  $\frac{1}{7} \div 7 =$

10)  $5 \div \frac{1}{4} =$

11)  $\frac{1}{9} \div 6 =$

12)  $9 \div \frac{1}{3} =$

13)  $\frac{1}{3} \div 3 =$

14)  $9 \div \frac{1}{6} =$

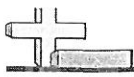
15)  $\frac{1}{5} \div 3 =$

16)  $7 \div \frac{1}{8} =$

17)  $\frac{1}{6} \div 5 =$

18)  $6 \div \frac{1}{3} =$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_



Solve each problem. Write your answer as a mixed number (if possible).

Answers

1)  $5 \div \frac{1}{2} =$

2)  $2 \div \frac{1}{2} =$

3)  $4 \div \frac{1}{9} =$

4)  $9 \div \frac{1}{9} =$

5)  $6 \div \frac{1}{4} =$

6)  $4 \div \frac{1}{6} =$

7)  $3 \div \frac{1}{8} =$

8)  $8 \div \frac{1}{9} =$

9)  $7 \div \frac{1}{5} =$

10)  $6 \div \frac{1}{3} =$

11)  $8 \div \frac{1}{3} =$

12)  $4 \div \frac{1}{8} =$

13)  $5 \div \frac{1}{9} =$

14)  $8 \div \frac{1}{2} =$

15)  $2 \div \frac{1}{5} =$

16)  $3 \div \frac{1}{5} =$

17)  $6 \div \frac{1}{6} =$

18)  $4 \div \frac{1}{5} =$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
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10. \_\_\_\_\_
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14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_

Name \_\_\_\_\_

Fraction Operations

## Mixed Review 1

Date \_\_\_\_\_

Class \_\_\_\_\_

**Directions:** Solve each problem. Write answers in **simplest form**. Circle your answer.

1)

$$\frac{2}{5} \times \frac{7}{8}$$

2)

$$3 \div \frac{1}{12}$$

3)

$$2\frac{3}{5} + 8\frac{4}{9}$$

4)

$$\frac{4}{8} \times \frac{2}{4}$$

5)

$$3 \times 5\frac{1}{2}$$

6)

$$15\frac{2}{5} - 12\frac{1}{2}$$

7)

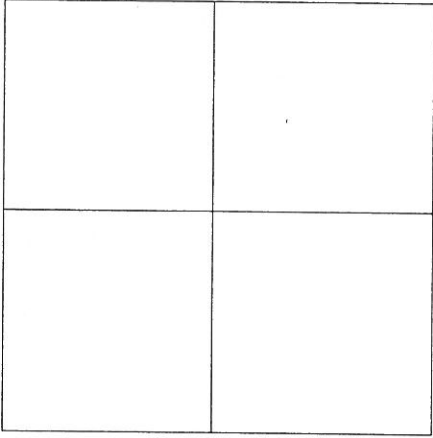
$$9\frac{1}{4} + 5\frac{2}{5}$$

8)

$$\frac{4}{5} \times 6\frac{2}{3}$$

9)

$$6\frac{1}{2} \times 2\frac{3}{9}$$



10)

$$\frac{1}{5} + 3\frac{1}{2}$$

11)

$$\frac{5}{7} \times 1\frac{1}{2}$$

12)

$$15 \div \frac{1}{2}$$

13)

$$5\frac{2}{9} - 1\frac{3}{5}$$

14)

$$\frac{1}{6} \div 11$$









**Directions:** Read each question and decide whether the answer will be greater than one or less than one. Set up the expression based on this and solve.

Question	Less than / Greater than One Whole	Expression	Solution
1) There are two candy bars and six people. How much will each person get if everyone gets equal amounts?	2 candy bars 6 people = less than 1/per person	$2 \div 6$	$\frac{1}{3}$ candy bar per person
2) There are 20 students and 7 pizzas have been ordered. How much pizza will each student get if everyone gets an equal amount?			
3) There are fifteen muffins and 7 children. If everyone gets an equal amount of muffins, how much will each child receive?			
4) Each cake requires $\frac{1}{3}$ cup of sugar. I have 4 cups of sugar. How many cakes can be made?			
5) 5 students plan to read aloud the remaining $\frac{1}{3}$ of the book. If each student reads the same amount, how much does each student read?			
6) There are two cookies and three children, how much should each student receive if they share the cookies equally?			
7) I have seven pounds of cookie dough. If each cookie is made with $\frac{1}{8}$ of a pound of cookie dough, how many cookies of equal size can I make?			