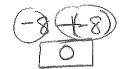
Chapter 1 Review

7th Grade Math

Name:_____

1) Simplify.

- a. (-12) + 20
 - [8]
- d. (-5)(-15)
 - [15]
- g. $9 \div -3$
 - 2
- j. (-32)+ 11
 - 2
- m. -8 a if a = -8



- p. -4 a if a = |4|
 - -4-141 (-4)(-4) = [-8]
- s. a^2 if a = -12 $(-12)^2$ $(-12)^2$
- v. a bif a = -|-4|, b = 4



b. 10 - | 4



e. (-8(-6)



h. $-40 \div -2$



k. 21 – 40

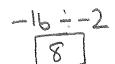


n. 10 - a if a = -12

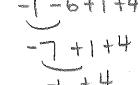


q. $-10 \bullet a$ if a = |-5|

t. $-16 \div a$ if a = -2



w. -4+3-6+1+4



c. -40 + -23



f. −5 • −11



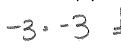
i. -3^2



- I. -a + 4
 - if a = 7 -7 + 4
- 0. -a + -6 if a = -11

r. −3 • a

if
$$a = -|3|$$



u. –a + b

if
$$a = 4$$
, $b = 4$



x. (-5)²







a.
$$\frac{5}{6} = \frac{6.833}{6.5000}$$

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is a terminating or repeating decimal.

b.
$$\frac{2}{5} = 0.4$$

2) Convert each of the following to a decimal without using a calculator and then determine if it

$$\frac{8}{3}$$
 (0.375)

0.83 0.6
c.
$$\frac{5}{6}$$
 or $\frac{2}{3}$
0.83
615.00
48
 $\frac{20}{18}$
e. $\frac{18}{8}$ or $\frac{1}{2}$

$$\frac{0.66}{3)2.00}$$

$$\begin{array}{c} -0.25 & -0.8 \\ \text{d.} \left(-\frac{1}{4} \right) & \text{or } -\frac{5}{6} \end{array}$$

f.
$$-0.3$$
 or $\left(-\frac{1}{4}\right)$

4) Put the following numbers in order from least to greatest.

$$0.04, 0.3, \frac{1}{2}, 0.62, \frac{3}{4}$$

5) Compute each of the following...

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

$$\frac{10}{12} + \frac{3}{12} = \frac{13}{12}$$

$$= \frac{1}{12}$$

b.
$$\frac{5}{6} \cdot \frac{1}{4} + \frac{5}{2}$$

c.
$$\frac{5}{6} \div \frac{1}{4}$$

d.
$$\frac{1}{4} \frac{1}{2} - 3 \frac{1}{6} \frac{6}{7}$$

e.
$$-4\frac{1}{2} \cdot 3\frac{2}{3}$$

$$-\frac{39}{2} \cdot \frac{11}{31} = -\frac{33}{2}$$

$$5+3\frac{2}{7}$$

$$\frac{35}{7} + \frac{23}{7} = \frac{58}{7}$$
 $= 8\frac{2}{7}$

h.
$$5 \bullet -3\frac{2}{5}$$

i.
$$5 \div 3\frac{4}{7}$$

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

$$\frac{12}{15} - \frac{25}{15} = \frac{13}{15}$$

k.
$$-\frac{4}{5} + \frac{3}{4} + \frac{3}{5}$$

$$\frac{16}{20} \frac{15}{20}$$

1.
$$-1\frac{1}{3} + 3\frac{3}{4}$$

$$3\frac{1}{3} + 7\frac{1}{3}$$
 $\frac{7}{3} + \frac{15}{3} = \frac{22}{2} + 11 \text{ PIZZAS}$

7) Shelbisin will spend $\frac{2}{3}$ of a week falling at the movies and spilling popcorn all over people, and $2\frac{1}{5}$ weeks pretending she's a princess. How many weeks in total will she spend doing these silly activities?

$$\frac{2}{3} + 2\frac{1}{5}$$
 $\frac{2}{3} + \frac{1}{5}$
 $\frac{2}{3} + \frac{1}{5} = \frac{13}{15} + \frac{13}{15} = \frac{13}{15} + \frac{13}{15} = \frac{1$

8) Lila wanted to kick her soccer ball $\frac{3}{4}$ of the way across the field. On her first try, she kicked it $\frac{7}{16}$ of the way. How much further did she have to go to reach her goal?

9) Troy has $\frac{7}{8}$ of a pizza left, how many $\frac{1}{16}$ can he cut from what he has?

10)Mr Cravatta's truck gets 18 miles/gallon and he has $5\frac{5}{9}$ gallons of gas in his tank. How far can he drive?

$$\frac{18.59}{91} = \frac{100}{100} = \frac{100}{100}$$

11) Describe a situation where two numbers would combine to make zero.

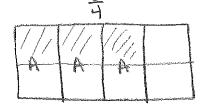
A scuba diver dives 45 feet below the surface of the water and then swims 45 feet back toward the surface

12) Without solving, Juaquin says the value of w must be negative.

$$\frac{14}{152} \times \frac{\bigcirc 6}{120} \times \frac{\bigcirc 54}{89} \times \frac{\bigcirc 74}{126} = w$$

Is Joaquin correct? Why or why not?

- 13) In the expression $m \div n$, m > 0 and n < 0. What must be true?
 - a. $m \div n$ will always be negative.
 - b. $m \div n$ may be positive or negative, depending on which number has the larger absolute value.
 - c. $m \div n$ will always be positive.
 - d. Not enough information provided.
- 14) Three fourths of Mrs. Thelen's students have A lunch. One half of those students bring their own lunch to school. What fraction of Mrs. Thelen's students go to lunch A and bring their own lunch. (Hint: You may want to draw a picture to help illustrate this scenario.) 3



Answers:

- 1) a. 8 b. 14 c. -63 d. 10 e. -14 f. 55 g. -3 h. 20 i. -9 j. -21 k. -19 l. -3 m. 0 n. 22 o. 5 p. -8 q. -50 r. 9 s. 144 t. 8 u. 0 v. -8 w. -2 x. 25
- 2) a. 0.8333... (repeating) b. 0.4 (terminating) c. 0.375 (terminating) d. rational
- 3) a. > b. > c. > d. > e. < f. <
- 4) 0.04, 0.3, $\frac{1}{2}$, 0.62, $\frac{3}{4}$
- 5) a. $1\frac{1}{12}$ b. $\frac{5}{24}$ c. $3\frac{1}{3}$ d. $\frac{9}{14}$ e. $-16\frac{1}{2}$ f. $1\frac{1}{6}$ g. $8\frac{2}{7}$ h. -17 i. $1\frac{2}{5}$ j. $-\frac{13}{15}$ k. $-1\frac{11}{20}$ l. $2\frac{5}{12}$
- 6) 11
- 7) $2\frac{13}{15}$
- 8) $\frac{5}{16}$
- 9) 14
- 10)100
- 11) A scuba diver dives -45 feet below the surface of the water and then swims 45 feet back toward the surface.
- 12)Yes, Juaquin in correct because there are an odd (3) number of negative terms in the problem.
- 13) A.
- $14)\frac{3}{8}$