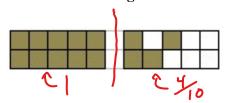


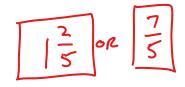
Answes. NOT Solutions

Math 8 Math Basics Review

Directions: Answer all questions on a separate piece of paper. Show all of your work. Answer in simplified lowest terms.

1. What fraction is represented in the diagram below?





2. Write the following fractions in lowest terms.

a.
$$\frac{30}{36} = \boxed{\frac{3}{6}}$$

c.
$$\frac{8}{12} = \frac{2}{3}$$

b.
$$\frac{21}{56} = \frac{3}{8}$$

d.
$$\frac{28}{36} = \frac{7}{9}$$

3. Write the following improper fractions as mixed numbers, in lowest terms.

a.
$$\frac{25}{10}$$

c.
$$\frac{30}{8}$$
 $\boxed{3\frac{3}{4}}$

b.
$$\frac{51}{8}$$
 $6\frac{3}{8}$

d.
$$\frac{34}{24}$$
 $1\frac{5}{12}$

4. Write the following mixed numbers as improper fractions, in lowest terms.

a.
$$7\frac{3}{15}$$

e.
$$1\frac{15}{24}$$

b.
$$3\frac{6}{24}$$

d.
$$2\frac{33}{36}$$
 12

5. Find the product using long multiplication.

a.
$$312 \times 6$$

c.
$$774 \times 8$$

b.
$$629 \times 47$$

- 6. Find the quotient and remainder using long division.
 - [168 r 3] $673 \div 4$
- $973 \div 8$
- 121-5

- $412 \div 3$ b.
- 137 r l
- d. 422 ÷ 16

- 7. Find the sum or difference:
 - a. (-9) + (4) = -5

- d. (-7) + (+6) = -1
- b. $(+3) + (-12) = \begin{bmatrix} -9 \end{bmatrix}$
- e. (-6) + (+12) = 6
- c. 0 + (-18) = -18
- f.(-8) + (-5) = -13
- 8. Find the product or quotient:
 - a. $45 \div 9 = 5$

- d. $(-12) \times (-7) = 84$
- b. (-6) × 11 = -66
- e. $(+54) \div (-9) = 6$
- c. $(+32) \div (-4) = \boxed{-8}$
- $f. (+5) \times (+7) = 35$

- 9. Solve:
 - a. $12 \times (-3) + 20 \div 2$
- e. $(-56)\div[14-(+6)]\times 2$
- b. $[(-12) (-8)] \times [2 + (-6)]$ f. $(11 4) \times (3 (-4))$

- c. $36 \div (-3 + 4 \times 3) 4$
- g. $(-6 + 7 \times 8) \div (-4 \stackrel{?}{\cancel{4}} 2)$

- d. $6 \times [-5 (-3)] \div (-2)$
- h. $\frac{2\times(6+4)+(-4)}{-4+(-2)\times(-1)}$
- 10. An ice hockey player gets a rating of -3 in four consecutive games, and then a plus/minus of zero in the fifth game.
 - a) What is his total plus/minus rating? $\frac{1}{2}$

b) What is his average plus/minus rating?

- 11. The average temperature in Calgary, Alberta, over 7 days, is recorded as: 11° , 4° , 7° , 4° , -3° , -9° , and 0° . What is the average temperature?
- 12. A banker deposits (puts in) \$50 per week for 12 weeks, and withdraws (takes out) \$70 per week for 6 weeks. Then, he uses half of the money to make a payment.
 - a) Write an equation to express the amount of money he has left.
 - b) How much money does he have left?



