

Name key Period _____ Business Math Chapter 1 Quiz (9-20-13)

Read each problem carefully and show all necessary work. You need to show how each problem would be solved.

1) Frank Onofre earns a weekly salary of \$467.

A) how much would Frank earn in 4 weeks of work.

$467 \times 4 = \$ 1868$

B) How much would he earn in a 52-week year?

$467 \times 52 = \$ 24,284$

2) Christian Michaels has two jobs. His full-time job pays \$12.78 an hour. A part-time job pays \$8.13 an hour. Last week Christian worked 37 hours at his full-time job and 13 hours at his part-time job.

a) Find the gross pay he earned at his full-time job.

$37 \times 12.78 = \$ 472.86$

b) Find the gross pay he earned at his part-time job.

$13 \times 8.13 = \$ 105.69$

c) Find the total amount he earned from both jobs.

$472.86 + 105.69 = \$ 578.55$

3) Tyler Egger worked five days last week and earned these amounts: \$94.07, \$88.79, \$82.01, \$96.24, \$104.88. What average amount per day did Tyler earn during these five days. Round to the nearest cent.

$(94.07 + 88.79 + 82.01 + 96.24 + 104.88) \div 5$
 $\$ 93.20$

4) Four employees of Romo testing lab earn \$18 an hour. Another 6 employees earn \$13.50 an hour, while 4 others are paid \$14.50 an hour. What is the average pay per hour earned by the employees to the nearest cent?

$$\begin{array}{r} 4 \times 18 = 72 \\ 6 \times 13.50 = 81 \\ 4 \times 14.50 = \underline{58} \\ 211 \div 14 \end{array}$$

\$15.07/hr

5) By working for 4 weeks at your part-time job you earned these amounts: \$126, \$84, \$105, \$112. What pay will you have to earn in the fifth week to average \$110 a week for the five weeks of work?

$$\frac{126 + 84 + 105 + 112 + X}{5} = 110$$

\$123

6) On a weekend, Conor Duke worked 13 hours at double-time pay. His regular-pay rate was \$9.86. What did Conor's overtime pay for the weekend total?

$$13 \times 2 \times 9.86$$

\$256.36

7) Angel Ruiz's regular-time pay rate is \$12.73 an hour. Last week he was paid for 42.5 hours at his regular rate and 6 hours at a time-and-half overtime rate. Find Angel's gross pay for the week

$$42.5 \times 12.73 + 6 \times 1.5 \times 12.73$$

\$655.60

8) The Tabitha Window Company's regular work week is 8 hours a day, Monday through Friday. Workers get time-and-half for work over 8 hours per day. Kristen Linder works for Tabitha and is paid a regular hour rate of \$13.78. One week she worked these hours: Monday, 8; Tuesday $9\frac{1}{4}$; ;

Wednesday, 10; Thursday, 9; Friday, $9\frac{1}{2}$.

a) During the week how many regular hours did Kristen work?

40 hours 40 hours

b) During the week how many overtime hours did Carrie work?

$1\frac{1}{4} + 2 + 1 + 1\frac{1}{2}$ 5.75 hrs
 $1.25 + 2 + 1 + 1.5$

c) What were her total earnings for the week?

$(40 \times 13.78) + (5.75 \times 1.5 \times 13.78)$ \$ 670.05

9) Katarina Martinez's pay is figured weekly, but is paid every two weeks. Her pay is based on a 40 hour week at a regular pay rate of \$13.25 an hour with time-and-half for overtime. During the first week of a new pay period Katarina worked 45.8 hours. In the second week of the pay period, she worked 45 hours. What was Katarina's total gross pay for these two weeks?

~~40~~ 80 10.8

$(80 \times 13.25) + (10.8 \times 13.25 \times 1.5) =$ 1274.65