

BUTCHER-BUSINESS MATH A –8<sup>TH</sup> PERIOD – OFF-SITE LEARNING PACKET DAY 2

Instructor Nancy Butcher

Date Day 2

Program/Class Business Math A

Period 7, 8

**State Indicator/Competency:**

Calculate expected values and use them to solve problems.

**Instructional Objective(s):**

Students will calculate gross pay for hourly-rate employees with 80% accuracy

**Materials:**

Blizzard bag, calculator, pencil

**Method of Instruction:**

Independent

**Activities:**

**Steps to determine regular and overtime gross wages:**

- 1) Find the number of regular and overtime hours worked
- 2) Find the regular-time pay
- 3) Find the overtime pay
- 4) Find the Gross wages

Formulas:

Regular Pay = Hourly Rate × Regular Hours Worked

Overtime Pay = Overtime Rate × Overtime Hours

Gross Pay = Regular Pay + Overtime Pay

Examples:

1. Mary worked these hours last week: Monday, 7 1/4; Tuesday, 10; Wednesday, 9 ½; Thursday, 8; Friday, 9. Mary is paid based on an 8-hour day with time-and-a-half for daily overtime. If Mary's regular-time pay rate is \$9.50 per hour, what gross wages did she earn last week?

Step 1)  $7.25 + 8 + 8 + 8 + 8 = 39.25$  (regular-time hours)

$2 + 1.5 + 1 = 4.5$  (time-and-a-half overtime hours)

Step 2)  $39.25 \times \$9.50 = \$372.88$  (regular-time pay)

Step 3)  $4.5 \times \$9.50 \times 1.5 = \$64.13$  (time-and-a-half pay)

Step 4)  $\$372.88 + \$64.13 = \$437.01$  (gross wages)

**Assessment:**

Packet Day 2

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Packet 2

Name: \_\_\_\_\_ Pd: \_\_\_\_\_

1. Olivia works on a 40 hour week basis. She is paid time-and-a-half for all hours worked over 40 hours in a week. Her regular-time pay is \$12.87 an hour. She worked these hours in a week: Monday, 8.4, Tuesday, 7.8, Wednesday, 8.0, Thursday, 9.2, Friday 8.5. What gross wages did Olivia earn last week?

Total number of hours worked: \_\_\_\_\_

# of Regular hours: \_\_\_\_\_

# of Overtime hours: \_\_\_\_\_

Hourly Rate for Regular hours: \_\_\_\_\_

Hourly Rate for Overtime hours: \_\_\_\_\_

Amount of Regular Pay: \_\_\_\_\_

Amount of Overtime Pay: \_\_\_\_\_

Total Gross Pay: \_\_\_\_\_

2. Stanley is paid based on an 8-hour day with time-and-a-half for daily overtime. His regular pay is \$9.50 an hour. Stanley worked these hours last week: Monday, 7.25; Tuesday, 10; Wednesday, 9.5; Thursday, 8; Friday, 9. What gross wages did Stanley earn last week?

Total number of hours worked: \_\_\_\_\_

# of Regular hours: \_\_\_\_\_

# of Overtime hours: \_\_\_\_\_

Hourly Rate for Regular hours: \_\_\_\_\_

Hourly Rate for Overtime hours: \_\_\_\_\_

Amount of Regular Pay: \_\_\_\_\_

Amount of Overtime Pay: \_\_\_\_\_

Total Gross Pay: \_\_\_\_\_

3. Xavier is paid based on an 8-hour day with time-and-a-half for daily overtime. His regular pay is \$13.69 an hour. Stanley worked these hours last week: Monday, 9.75; Tuesday, 8; Wednesday, 6; Thursday, 8.5; Friday, 8. What gross wages did Xavier earn last week?

Total number of hours worked: \_\_\_\_\_

# of Regular hours: \_\_\_\_\_

# of Overtime hours: \_\_\_\_\_

Hourly Rate for Regular hours: \_\_\_\_\_

Hourly Rate for Overtime hours: \_\_\_\_\_

Amount of Regular Pay: \_\_\_\_\_

Amount of Overtime Pay: \_\_\_\_\_

Total Gross Pay: \_\_\_\_\_