

Lesson Title & Section #: 6-2 Pay Periods and Hourly Rates



Lesson Essential Question: How do you compute weekly, semimonthly, and biweekly earnings given annual salary?

Discussion: What do you need to know to make sure each paycheck is correct?

Weekly: 52 paychecks a year

Double-Time Pay: 2 times the regular hourly rate

Biweekly: 26 paychecks a year
(every 2 weeks)

Gross Pay: The sum of your hourly pay and overtime pay

Semimonthly: 24 paychecks per year
(twice a month)

Minimum Wage: The lowest hourly rate that can be paid by an employer.

Monthly: 12 pay checks per year

Direct Deposit: paychecks are automatically deposited electronically into your bank account on payday

Hourly Rate: amount paid for each hour of work

Regular Hours: The specific number of hours a week an employer requires. (often 40 hours/week)

Overtime Hours: Extra hours worked beyond what is required by the employer.

Overtime Hourly Rate: Usually a higher amount earned per hour than for regular hours worked.

Time-and-a-half: $1\frac{1}{2}$ or 1.5 times the regular hourly rate

Date: _____

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Example 1

Christina is paid biweekly. Her annual salary is \$37,000. What is her biweekly salary, rounded to the nearest cent?

biweekly = 26 paychecks

$$37,000 \div 26 = \$1,423.08$$

per paycheck

Example 2

Manny is paid semimonthly. His semimonthly salary is \$1,239. What is his annual salary?

semimonthly = 24

$$1,239 \times 24 = \$29,736$$

annual salary

Example 3

Maureen works at a local Chicken King restaurant. Her regular hourly wage is \$9.70. If she regularly works 40 hours per week, what is her regular weekly pay?

$$9.70 \times 40 = \$388$$

per week

Example 4

If Maureen from Ex3 works overtime, she receives an hourly rate of 1.5 times her regular hourly rate. What is Maureen's hourly overtime rate?

$$9.70 \times 1.5 = \$14.55$$

per hour

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Example 5

Janice earns \$10 per hour. If her regular hours are 40 hours per week, and she receives time-and-a-half overtime, find her total pay for a week in which she works 45 hours.

$$\text{regular hours} = 40 \quad \text{overtime} = 5 \quad \text{overtime rate} = 10 \times 1.5 = \$15 \text{ per hr}$$

$$\text{reg. hr pay} \quad 40 \times 10 = \$400$$

$$\text{overtime pay} \quad 5 \times 15 = \$75$$

$$\text{Total pay} = 400 + 75 = \boxed{\$475}$$

Example 6

Samantha worked her 40 regular hours last week, plus 7 overtime hours at the time-and-a-half rate. Her gross pay was \$611.05. What was her hourly rate?

$$40x + 7(1.5x) = 611.05$$

$$40x + 10.5x = 611.05$$

$$\frac{50.5x}{50.5} = \frac{611.05}{50.5}$$

$$x = 12.1$$

The rate is
\$12.10 per hour

Example 7

Last week, Saul worked r regular hours and t overtime hours at a time-and-a-half rate. He earned \$700. If x represents his hourly rate, express x in terms of r and t .

$$rx + t(1.5x) = 700$$

$$rx + 1.5tx = 700$$

$$\frac{(r+1.5t)x}{(r+1.5t)} = \frac{700}{(r+1.5t)}$$

$$x = \frac{700}{(r+1.5t)}$$