

# Learning Plan 6

## Chapter 6

### Question 2

Determine the earnings for the employee. Hours in excess of 40 are overtime (O.T.) hours.

Name	S	M	T	W	Th	F	S	Reg. Hrs.	O.T. Hrs.	Reg. Rate	O.T. Rate
Burns, J.	8.5	8.4	8.5	8.5	8.8	8.3				\$8.82	\$13.23

What were Mr. Burns' earnings at the regular rate?

First find the total number of hours:

$$8.5 + 8.4 + 8.5 + 8.5 + 8.8 + 8.3 = 51 \text{ hours}$$

Out of these 51 hours, 40 hours are regular and 11 hours are overtime.

The Regular Rate is \$8.82.

$$\text{Multiply: } 8.82 \cdot 40 = \$352.80$$

What were Mr. Burns' earnings at the overtime rate?

The Overtime Rate is \$13.23.

$$\text{Multiply: } 13.23 \cdot 11 = \$145.53$$

What were Mr. Burns' gross earnings?

$$\text{Add: } \$352.80 + \$145.53 = \$498.33$$

### Question 4

Some companies pay overtime for all time worked over 8 hours a day. Use this method to complete the following payroll ledger. Overtime is paid at the time-and-a-half rate.

Employee	Hours worked							Total Hours		Reg. Rate
	S	M	T	W	Th	F	S	Reg.	O.T.	
Rectra, J	-	5.5	8	9	10.25	8	-			\$11.38

### Solution

First split the hours into regular and overtime:

	M	T	W	Th	F
Regular	5.5	8	8	8	8
Overtime			1	2.25	

Determine the number of regular hours that Mr. Rectra worked in the week.

$$5.5 + 8 + 8 + 8 + 8 = 37.5 \text{ hours}$$

Determine the number of overtime hours that Mr. Rectra worked in the week.

$$1 + 2.25 = 3.25 \text{ hours}$$

What was the overtime rate for Mr. Rectra?

Multiply the regular rate of \$11.38 by time-and-a-half.

$$11.38 \cdot 1.5 = \$17.07$$

What was the amount of earnings at Mr. Rectra's regular pay?

Mr. Rectra worked 37.5 regular hours. The regular rate is \$11.38.

$$\text{Multiply: } 37.5 \cdot 11.38 = \$426.75$$

What was the amount of earnings at Mr. Rectra's overtime pay?

Mr. Rectra worked 3.25 overtime hours. The overtime rate is \$17.07.

$$\text{Multiply: } 3.25 \cdot 17.07 = \$55.4775 \approx \$55.48$$

What were the total gross wages for Mr. Rectra?

$$426.75 + 55.48 = \$482.23$$

### Question 5

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Find the equivalent earnings for the salary indicated.

Weekly	Biweekly	Semimonthly	Monthly	Annual
			\$1956.24	

#### Solution

What is the annual salary equivalent to a monthly salary of \$1956.24?

$$\$1956.24 \cdot 12 \text{ months} = \$23474.88$$

What is the biweekly salary equivalent to a monthly salary of \$1956.24?

There are 52 weeks in one year.

$$52 \div 2 = 26 \text{ biweekly payments in one year.}$$

$$\$1956.24 \cdot 12 \text{ months} = \$23474.88$$

$$\$23474.88 \div 26 = \$902.88$$

What is the semimonthly salary equivalent to a monthly salary of \$1956.24?

$$\$1956.24 \div 2 = \$978.12$$

What is the weekly salary equivalent to a monthly salary of \$1956.24?

$$\$1956.24 \cdot 12 \text{ months} = \$23474.88$$

$$\$23474.88 \div 52 \text{ weeks} = \$451.44$$

### Question 6

Find the gross earnings for Phil Justin, a phone pollster for Accurate Info. The company pays phone pollsters 14 cents for each telephone call that results in data. During one period, Phil made 1585 calls, 1420 of which resulted in data.

What are Phil's gross earnings for the period in which he made 1585 calls, 1420 of which resulted in data?

#### Solution

$$1420 \cdot 0.14 = \$198.80$$

### Question 7

Beth Garvin, a food-supplements representative, had sales of \$5991 with allowances of \$454. If her commission rate is 8% find her gross earnings. What were Beth's gross earnings?

#### Solution

$$\$5991 - \$454 = \$5537$$

$$0.08 \cdot \$5537 = \$442.96$$

**Question 8**

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Tutorial software tester Ellie Sharkey is paid by the day either on a piecework basis or at an hourly rate of an 8-hour day, whichever is greater. She is paid \$1.80 per problem tested or \$9.50 per hour. Ellie's production for a week is shown below.

Employee	Production (problems tested)					Hourly Rate	Gross Earnings
	M	T	W	Th	F		
Sharkey, E.	68	63	65	62	62	\$ 9.50	
Daily wages						xxxxxx	

What are Ms. Sharkey's gross earnings?

\$ 576.00 (Type an integer or a decimal. Round to the nearest cent as needed.)

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Monday	$68 \cdot 1.80 = 122.4$	$8 \cdot 9.50 = 76$
Tuesday	$63 \cdot 1.80 = 113.4$	$8 \cdot 9.50 = 76$
Wednesday	$65 \cdot 1.80 = 117$	$8 \cdot 9.50 = 76$
Thursday	$62 \cdot 1.80 = 111.6$	$8 \cdot 9.50 = 76$
Friday	$62 \cdot 1.80 = 111.6$	$8 \cdot 9.50 = 76$

Take the highest pay for each day and add.

$122.4 + 113.4 + 117 + 111.6 + 111.6 = 576$

**Question 9**

9. Jenn Lynn sells college textbooks on commission. She gets 8% on the first \$6000 of sales, 16% on the next \$6000 of sales, and 20% on sales over \$12,000. In July of 1997 Jenn's sales total was \$17,000.

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What was Jenn's gross commission for July 1997?

\$ 2440

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$0.08 \cdot 6000 + 0.16 \cdot 6000 + 0.20 \cdot 5000 = 2440$

### Question 10

10. Natalie Brody is a trainee insurance salesperson. She is paid a base salary of \$450 a week, a commission of 0.6% on sales above \$15,000 up to \$25,000, and a commission of 1.4% on sales in excess of \$25,000. Natalie had sales of \$24,750 in the week of 5/12.

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What were Natalie's gross earnings for the week of 5/12?

\$ 508.50 (Type an integer or a decimal. Round to the nearest cent as needed.)

$$24,750 - 15,000 = 9750$$

$$450 + 0.006 \cdot 9750 = 508.50$$