

Marge gets paid 17¢ per hat she makes; how much did she earn today?

We will continue looking at how much to pay employees, but we consider piecework and commissions in this section. Recall the following definition.

**Definition: Gross earnings:** total amount earned without deductions such as taxes, union dues, etc.

In the last section, for hourly employees, we used the following formula.

$$\text{Gross Earnings} = \text{Number of hours worked} \times \text{Rate per hour}$$

Here, we will be thinking of an employee who gets paid for each piece they produce, like a sewing or fruit picking job. Our formula for gross earnings will now be the following.

$$\text{Gross Earnings} = \text{Number of items produced} \times \text{Pay per item}$$

Some piecework employees, we will see, get paid more per item if they produce more. For instance, you might get paid 10¢ per item if you produce up to 100 items. But then get paid 15¢ per item for every item you produce over 100. This is called **differential piecework** and will be discussed later.

To meet federal minimum wage laws, employers sometimes pay a **guaranteed hourly wage**. This kicks in if a piecework employee does *not* earn the equivalent of minimum wage for his time spent.

We will see **overtime** in this section as well. We will figure it as 1.5 times or 150% of the regular per item rate.

Lastly, we will see **commission** sales in this section. There are different ways to award commission and we will look at a few.

### Piecework (Per Piece Wages) Earnings:

expl 1: Workers at a recycling center are paid \$0.48 per container for sorting recyclables. Find the daily gross earnings for the following employee.

C. Biron who completed 292 containers

Try estimating the answer before you use the calculator.

expl 2: Mr. M. K. Leonard picks avocados. He picked 907 avocados in a single day. According to the pay chart below, find Mr. Leonard's daily gross earnings.

The trick is to recognize he does *not* get the highest rate for *all* of his avocados.

If he picks ...	he gets paid ...
1 – 500 avocados	\$0.10 each
501 – 700 avocados	\$0.14 each
Over 700 avocados	\$0.18 each

### Guaranteed Hourly Wage:

expl 3: Find the gross earnings for this employee by first finding the daily hourly earnings and then finding the daily piecework earnings. Each employee has an eight-hour workday and is paid \$0.75 for each unit of production or the hourly rate, whichever is higher.

Name	Units Produced					Hourly Rate
	M	T	W	Th	F	
Jackson, S.	123	92	105	130	115	\$10.20
Piecework wages (units × rate)						

Compare the hourly rate for 8 hours versus her piecework earnings at \$0.75 for each unit.

Do this for each day individually.

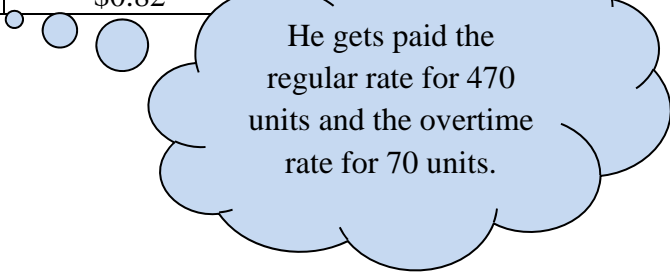
### Piecework Pay with Overtime:

**Recall: Definition: Overtime earnings:** the money earned at the overtime rate of pay

As before, we will pay overtime at 1.5 times or 150% of the regular rate. However, in this section, the rate we are taking 150% of will be a piecework rate of pay.

expl 4: Find the gross earnings for this employee. Overtime is paid at 1.5 times the normal rate per piece.

Employee	Units Produced		Rate per Unit
	Regular	Overtime (O.T.)	
A. Jennings	470	70	\$0.82



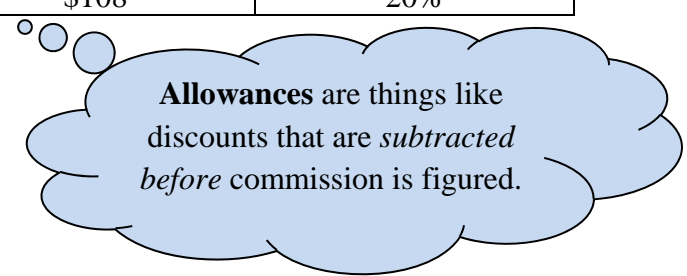
He gets paid the regular rate for 470 units and the overtime rate for 70 units.

### Commission Sales:

Salespeople are often given a **commission**, or a percentage of each sale. Sometimes the commission does *not* kick in until the salesperson reaches a certain level of sales. Salespeople may or may *not* be given a base salary too.

expl 5: Find the gross earnings (in other words, the commission earned) for this salesperson.

Salesperson	Total Sales	Returns and Allowances	Rate of Commission
Kling, J.	\$3806	\$108	20%



**Allowances** are things like discounts that are *subtracted* before commission is figured.

### Variable Commission:

expl 6: Find the gross earnings for P. Hubbard who has a total sales of \$11,225 using the following commission scale.

Again, notice the *whole* \$11,225 is *not* multiplied by a single rate.

Variable Commission Rate
6% on first \$7,500 in sales
8% on next \$7,500 in sales
10% on any sales over \$15,000

### Salary plus Commission:

expl 7: Fire Fighting Equipment pays its salespeople as follows.

\$452 per week plus a commission of 0.9% on sales between \$15,000 and \$25,000, with 1.1% paid on sales in excess of \$25,000.

Find the gross earnings for F. Wilson who had a total sales of \$52,620. (No commission is paid on the first \$15,000 of sales.)

Think of the \$52,620 in three piles. One pile, the first \$15,000, gets paid at 0%. The second pile (\$10,000, do you know why?) gets paid at 0.9%. How much would be in the third pile, which would get paid at 1.1%?

Don't forget the base salary.