

Scientific
calculators

Math 9 Section 2.1 – Income Part 1

Homework: Section 2.1 on Pg. 55; #1-4, 6, 13, 14, 17, 18

Worksheet (at the back of package); #1, 2, 5

Good questions

Income: how much you get paid for work

There are a few different ways people get paid for the work they do.

Wage: You get paid per hour

Salary: You get paid a fixed amount for a long period of time (month/year)

Commission: You get paid for how much you sell (percentage)

Piece of Work: You get paid for each thing you make/do

A few more vocabulary terms related to income.

Gross Income: total amount you get paid (added together)

Overtime: extra work outside normal hours

Time-and-a-half: Each hour of work is 1.5 hours of pay

Double-time: Each hour of work is 2 hours of pay

6 hours overtime

$$6 \times 1.5 = 9 \text{ hours}$$

$$6 \times 2 = 12 \text{ hours}$$

And finally, some vocabulary related to time (I promise this is the end of vocab for today!)

Annual: per year

Monthly: per month - 12 times a year

Semi-Monthly: 2 times per month - 24 times a year

Weekly: per week - 52 times a year

Every 2 Weeks: $\frac{52 \text{ weeks}}{2} = 26 \text{ times a year}$

Example #1:

Steven works at a fast food restaurant. He makes \$15 an hour. He gets paid time-and-a-half for overtime. What is Steven's gross income for 15 hours of regular work and 5 hours of overtime?

$$\begin{aligned} \text{total} &= \text{regular} + \text{overtime} \\ &= \$15 \times 15 + \$15 \times 1.5 \times 5 \\ &= \$225 + \$112.50 \\ &= \boxed{\$337.50} \end{aligned}$$

time and a half
2 decimal places

Example #2:

Annabel works as a doctor. She has an annual salary of \$53,200.

a) How much is her paycheck if she gets paid semi-monthly?

$$\frac{\$53,200}{24} = \boxed{\$2,216.66}$$

2 times per month - 24 per year

b) Find her income per week

$$\frac{\$53,200}{52} = \boxed{\$1,023.08}$$

52 per year

c) If she works 40 hours per week, find her hourly wage

$$\frac{\$1,023.08}{40 \text{ hours}} = \boxed{\$25.58}$$

d) If she gets paid double-time for overtime, how much does she make for 10 hours of overtime?

$$\$25.58 \times 2 \times 10 = \boxed{\$511.60}$$

double

.54