2.1 Wages and Salary

Name: __key__

Build Your Skills:

Date: _____

When you add or subtract fractions there are three simple rules.

1. Make sure the denominators are the same
2. Add or subtract the numerators and put the answer over the denominator
3. Put the fraction in lowest terms. Also known as simplifying the fraction.

Ex 1. $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

Ex 2. $\frac{5}{8} - \frac{3}{8} = \frac{2}{8} = \frac{1}{4}$

a. $\frac{4}{6} + \frac{4}{12} =$

b. $\frac{5}{10} - \frac{1}{10} =$

c. $\frac{4}{7} + \frac{5}{7} =$

d. $\frac{11}{9} - \frac{2}{3} =$

e. $\frac{1}{2} + \frac{6}{8} =$ $1\frac{1}{4}$

f. $\frac{5}{5} - \frac{4}{5}$:

Connect:

How many days are in a year? __365__   Months in a year? __12__   Weeks in a year? __52__

__Gross pay__ is the total amount of money earned before __deductions__ ; also

called __gross earning__ or gross income.

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Biweekly: __every two weeks__

Semi-monthly: __twice a month__

Examples:

1. Jesse works as an electrician and earns $24.68/h. *per hour* If it takes him 15 hours for on job, how much will he earn?

$\frac{\$24.68}{1\ hour} \times 15\ hour = \$370.20$

2. Last week, Chi worked 34 hours cutting lawns. His gross income was $329.12. What was his hourly wage?

$\frac{\$}{hrs} = \frac{329.12}{34} = \frac{x}{1}$ $x = 9.68$

$\$9.68/hr$

3. Antonio is a cashier in a store that sells Caribbean products, such as ginger syrup, ackee, and taro. His time card for one week is shown below.

Day	Morning		Afternoon		Total Hours		min	
	IN	OUT	IN	OUT				
Monday	9:00	11:45	12:45	3:00	2	2	45	15
Tuesday	8:45	10:45	2:00	5:30	2	3	0	30
Wednesday	9:00	12:00	1:00	4:00	3	3	0	0
Thursday	9:30	12:00	1:15	3:45	2	2	30	30
Friday	9:00	11:30	12:15	3:15	2	3	30	0

Total: 11   13 $\overline{105}$ $\overline{75}$

180 min
=3 hr

11 + 13 + 3 = 27 hrs

a. How many hours did he work?

Mon $2\frac{3}{4} + 2\frac{1}{4} = 5$

Tues $2 + 3\frac{1}{2} = 3\frac{1}{2}$ Total = 27 hrs

Wed $3 + 3 = 6$

Thurs $2\frac{1}{2} + 2\frac{1}{2} = 5$

Fri: $2\frac{1}{2} + 3 = 5\frac{1}{2}$

b. If he earns $15.85 per hour, how much did he earn that week?

$$\frac{\$15.85}{1\ hour} = \frac{x}{27\ hours}$$

$x = \$427.95$

4. Marcel works for a construction company and earns $15.82/h for a $37\frac{1}{2}$ hour work week. He is paid time and a half for any time he works in excess of $37\frac{1}{2}$ hours. If he works $42\frac{1}{4}$ hours during one week, how much will he earn?

1.5 times reg wage

37.50   42.25

42.25 − 37.50 = 4.75 overtime

Overtime wage:
$15.82 × 1.5 = $23.73

Regular: Overtime:
$15.82 × 37.5 hr = $593.25 $23.73 × 4.75 = $112.72

Total income = 593.25 + 112.72 = $705.97

Assignment: Textbook p 60 # 1-2, 4-5, 7-8