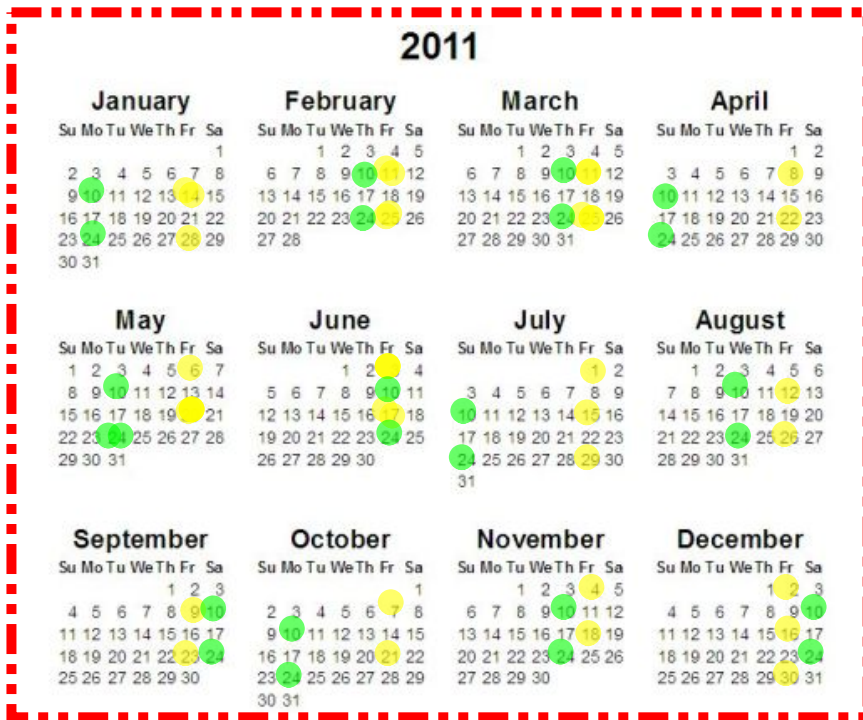


Biweekly $\frac{52}{2} = 26 \text{ pays}$ What is the difference?
 Paid every two weeks.

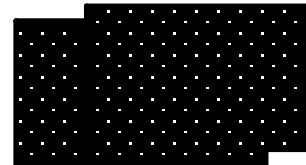
Semi-monthly
 Paid twice a month. $2 \times 12 = 24 \text{ pays}$

$\frac{52 \text{ weeks in a year}}{2}$	$12 \text{ months} \times 2$
$= 26 \text{ pays}$	$= 24 \text{ pays}$





EXAMPLE #2...



Amos was hired to be the office clerk at an insurance company. His annual salary will be \$34 756.00.

a) Why is Amos not paid annually for his work?

Pay in increments

b) Would he earn more each pay period if he were paid semi-monthly or biweekly?

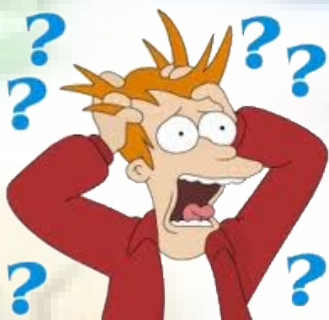
Semi-monthly: $\frac{\$34\,756.00}{24}$
 $\$1448.17$

Biweekly: $\frac{\$34\,756.00}{26}$
 $\$1336.17$

How many weeks are in a month??



How many weeks are in a month??



52 weeks in a year
12 months

4. $\bar{3}$ weeks / month

EX #3:

Laura's regular rate at her job in a warehouse is ~~\$9.86~~^{11.25} an hour. She works 8 hours a day. She has to work an extra shift on a holiday, and her overtime rate is time and a half. (x 1.5)



a) What are Laura's gross earnings for the holiday?

"time and a half" ↓

$$11.25 \times 8 \times 1.5 = \$135$$

b) What is her hourly rate on the holiday?

$$16.88 / \text{hr}$$

EX #4:

Gregor works as a glazier, a person who cuts and fits glass, at a window manufacturing company in Miramichi, NB. He earns \$19.99/h for 37.5 hours a week and time and a half for any hours over that. Gregor examines the schedule for the upcoming week, shown here.

WEEKLY SCHEDULE

Employee Name	Day	Start time	End time	Hours
Gregor	Sunday			
	Monday	8:00 am	4:00 pm	8
	Tuesday	8:15 am	4:00 pm	7.75
	Wednesday	8:00 am	3:30 pm	7.5
	Thursday	8:00 am	4:00 pm	8
	Friday	9:00 am	4:15 pm	7.25
	Saturday	8:30 am	6:30 pm	10



Ritchie Wharf Park is a popular tourism destination for those visiting Miramichi, New Brunswick.



TOTAL 48.5

- a) Describe your strategy for determining the number of hours Gregor will work each day and express these amounts as decimals.
- b) How many hours of overtime will he work?

$$48.5 - 37.5 = 11 \text{ hrs OT}$$

Gross Pay

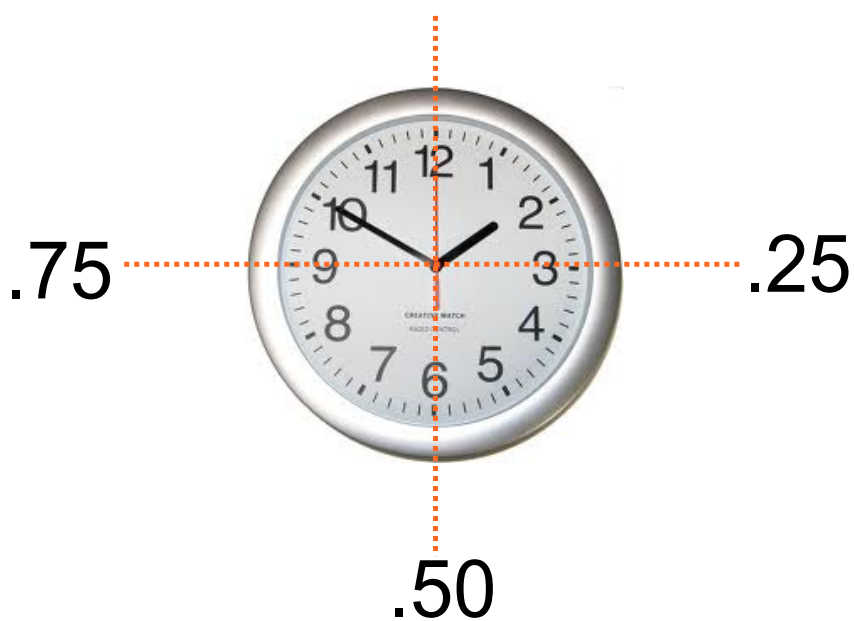
Reg

OT (x1.5)

$$19.99 \times 37.5 = 749.63$$

$$19.99 \times 1.5 \times 11 = 329.84$$

$$+ \underline{\underline{1079.47}}$$



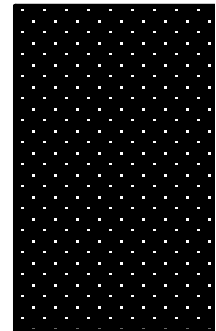
Employers don't usually pay for every minute. Round off the hours to the nearest quarter hour.

Gregor works as a glazier, a person who cuts and fits glass, at a window manufacturing company in Miramichi, NB. He earns \$19.99/h for 37.5 hours a week and time and a half for any hours over that. Gregor examines the schedule for the upcoming week, shown here.

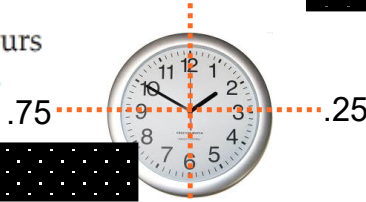
WEEKLY SCHEDULE

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	Saturday	8:30 am	6:30 pm

= 8 hours
 = 7.75 hours
 = 7.5 hours
 = 8 hours
 = 7.25 hours
 = 10 hours
48.5 hours



- a) Describe your strategy for determining the number of hours Gregor will work each day and express these amounts as decimals.



- b) How many hours of overtime will he work?

48.5 hours - 37.5 hours = 11 hours of overtime

.50

ONE LAST EXAMPLE...

Liberty works as a plumber. She receives \$24.50/hr plus time and a half for the first 8 hours of overtime and double time for anything beyond that time. If she has worked a 50 hour week, what is her gross pay?

$$\begin{array}{l} \text{Reg} \quad 24.50 \times 40 = 980 \\ \text{OT (x1.5)} \quad 24.50 \times 1.5 \times 8 = 294 \\ \text{OT (x2)} \quad 24.50 \times 2 \times 2 = 98 \\ \hline \text{total } \$1372 \end{array}$$

JOBS AND CHORES THAT REQUIRE MATH	
<i>Job/chore</i>	<i>Math used</i>
retail sales	calculating purchase amounts, including taxes and discounts
restaurant worker	calculating tips
working at an amusement park	counting tickets, making sales, estimating wait times
stocking shelves	calculating how much stock fits on shelves and how much a dolly can carry at one time
newspaper delivery	using reason and logic to determine the best routes, estimating how long delivery takes
cooking	measuring ingredients, calculating timing
cleaning	measuring cleaning products, mixing solutions
laundry	measuring detergent, telling time



HOMWORK...

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Questions 1 to 10

[2.1 Build Your Skills Detailed Solutions.pdf](#)

[Worksheet - Wages and Salaries.pdf](#)

⑥ 150% pay
↓
x 1.5

Attachments

2.1 Build Your Skills Detailed Solutions.pdf

Worksheet - Wages and Salaries.pdf