

INITIAL  
VALUE

RATE OF  
CHANGE / SLOPE

Name: 6<sup>th</sup>

$\Delta$ : DELTA  
"THE CHANGE IN"

### Verbal Description

HENRI STARTED THE YEAR WITH +75<sup>00</sup> IN SAVINGS. EACH WEEK HE ADDED \$25<sup>00</sup>.

$$\frac{\text{SAVINGS}}{\# \text{ OF WEEKS}} = \frac{\$25}{1 \text{ WK}} = \boxed{\$25/\text{WK}}$$

### Symbolic Display (Equation)

$$S = \boxed{25}w + \boxed{75}$$

w: # OF WEEKS

S: AMOUNT IN SAVINGS (\$)

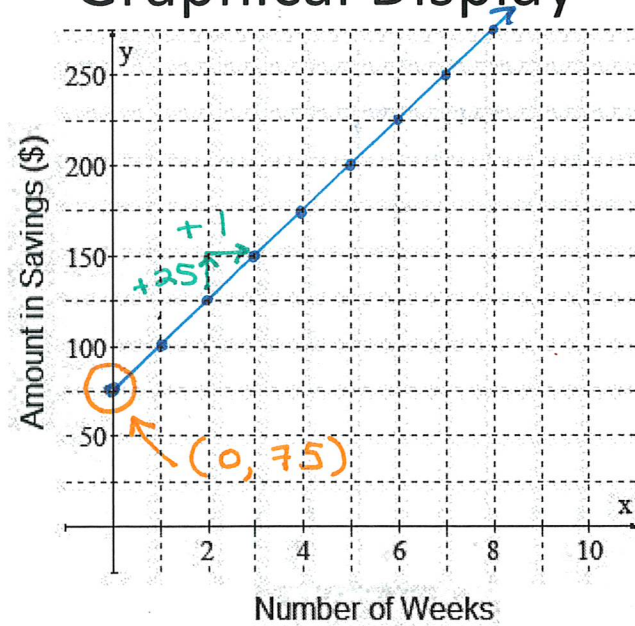
### Tabular Display

$\Delta x$	x	y
	WEEKS	SAVINGS (\$)
+1	<u>0</u>	<u>75</u>
+1	1	100
+1	2	125
+1	3	150

$$\text{SLOPE} = \frac{\Delta y}{\Delta x} = \frac{\$25}{1 \text{ WK}}$$

$\boxed{\$25/\text{WK}}$

### Graphical Display

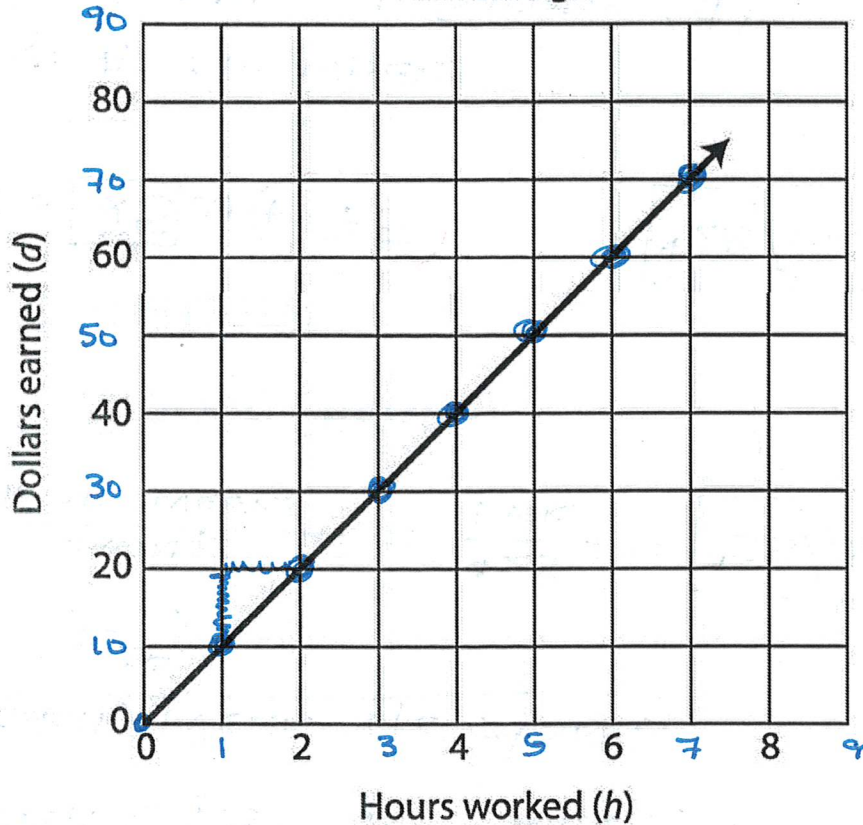


$$\frac{\text{RISE}}{\text{RUN}} = \frac{\$25}{1 \text{ WK}}$$

$\boxed{\$25/\text{WK}}$

Sarah and Javier both have summer jobs.  
 Who gets paid the higher hourly rate?

Sarah's Wages



$$\frac{\text{RISE}}{\text{RUN}}$$

$$\frac{\$10}{1 \text{ HR}}$$

$$\$10/\text{HR}$$

Javier's Wages

$$d = 30 + 2h$$

$d$ : dollars earned  
 $h$ : hours worked

$$\uparrow$$

$$\$2/\text{HR}$$

SARAH GETS PAID  
 THE HIGHER HOURLY RATE.

What can you infer from  
 the initial values?

JAVIER

\*30

↑

Bonus?

SARAH

\*0