

Lesson 3-3 → Seventh Grade Tables to Eight Grade Tables

Seventh Grade Tables

Hours x	Miles y
------------	------------

0	0
---	---

1	50
---	----

2	100
---	-----

3	?
---	---

Eighth Grade Tables

Hours x	Miles y
------------	------------

0	100
---	-----

1	150
---	-----

2	200
---	-----

3	?
---	---

Finding Multiplier
works

$$1 \times 50 = 50$$

$$2 \times 50 = 100$$

$$3 \times 50 = 150$$

Finding Multiplier
Does Not Work

$$1 \times \quad = 150$$

$$2 \times \quad = 200$$

$$3 \times \quad = ?$$

$$y = 50x$$

↑ steepness

We need a new
method to find
steepness

In Tables $\frac{\text{Rise}}{\text{Run}}$ is $\frac{\text{Change in } Y}{\text{Change in } X}$

	Hours X	Miles Y	
	0	100	
+1	1	150	+50
+1	2	200	+50
+1	3	?	
+2	5	?	

$$\frac{\text{Change in } Y}{\text{Change in } X} = \frac{50}{1} = \frac{100}{2}$$

	2	200	
+1	3	250	+50
+2	5	350	+100