Objective: IWBAT use ratios and proportions with direct variation.

Example 4T – Direct Variations and Tables

For the data in each table, use the ratio to tell whether *y* varies directly with *x*. If it does, write an equation for the direct variation.

x	y
-2	1
2	-1
4	-2

x	y
-1	2
1	2
2	-4

Example 4S – Direct Variations and Tables

For the data in each table, use the ratio to tell whether *y* varies directly with *x*. If it does, write an equation for the direct variation.

x	y
-2	3.2
1	2.4
4	1.6

x	y
4	6
8	12
10	15

Example 5T – Real-World Problem Solving

Suppose a windlass requires 0.75 lb of force to lift an object that weighs 48 lb. How much force would you need to lift 210 lb?

Example 5S – Real-World Problem Solving

Suppose a windlass requires 0.5 lb of force to lift an object that weighs 32 lb. How much force would you need to lift 160 lb?