

## 1.4 Tables of Related Values - Day 2

Common difference relationships:

The top row must count by 1 for the given pairs.

\* Look for a common difference in the bottom row.

\* Find a start value

↳ multiply common difference by the 1st number in top row

→ Subtract that from the 1st number in the bottom row

SENTENCE:

bottom row title is equal to common difference times top row title plus start value.

	+1	+1									
people (p)	3	4	5	6	7	12	15	10	13	15	
Cost (C)	\$105	\$115	\$125	\$135	\$145	\$195	\$225	\$30	\$30	\$75	
	↙ +10	↙ +10						common difference = 10			
								Start value = 75			

a. Express the relationship between the quantities in words.

The cost (C) is equal to 10 times the people (p) plus 75.

b. Write as a formula.

$$C = 10p + 75$$

c. Fill in the missing numbers.

$$C = 10p + 75$$

$$C = 10(6) + 75$$

$$C = 60 + 75$$

$$C = 135$$

$$C = 10p + 75$$

$$C = 10(7) + 75$$

$$C = 70 + 75$$

$$C = 145$$

$$C = 10p + 75$$

$$C = 10(8) + 75$$

$$C = 80 + 75$$

$$C = 155$$

	$\begin{array}{r} \xrightarrow{+1} \\ \xrightarrow{+1} \end{array}$ $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ common difference = 50 $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ Start value = 100
$\begin{array}{r} \xrightarrow{+1} \\ \xrightarrow{+1} \end{array}$ $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ common difference = 50 $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ Start value = 100	$\begin{array}{r} \xrightarrow{+1} \\ \xrightarrow{+1} \end{array}$ $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ common difference = 50 $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ Start value = 100

a. Express the relationship between the quantities in words.

The cost (C) is equal to 50 times the hours (h) plus 100.

b. Write as a formula.

$$C = 50h + 100$$

c. Fill in the missing numbers. (use formula)

C=50h+100	C=50h+100	C=50h+100	C=50h+100
C=50(4)+100	C=50(5)+100	C=50(10)+100	C=50(12)+100
C=200+100	C=250+100	C=500+100	C=600+100
C=300	C=350	C=600	C=700

	+1	+1									
ounces (z)	3	4	5	6	7	12	15	10	13	15	
Cost (C)	\$0.50	\$0.65	\$0.80	\$1.25	\$1.55	\$1.85	\$3.05	\$0.45	\$0.45	\$0.45	
	↙ +.15	↙ +.15						common difference = 0.15			
								Start value = 0.50			

	$\begin{array}{r} \xrightarrow{+1} \\ \xrightarrow{+1} \end{array}$ $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ common difference = 0.15 $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ Start value = 0.50
$\begin{array}{r} \xrightarrow{+1} \\ \xrightarrow{+1} \end{array}$ $\begin{array}{r} \checkmark \\ \checkmark \end{array}$ common difference = 0.15 $\begin{array}{r} \checkmark \\ \checkmark \end{math>$	

a. Express the relationship between the quantities in words.

The cost (C) is equal to 0.15 times the ounces (z) plus 0.05.

b. Write as a formula.

$$C = 0.15z + 0.05$$

c. Fill in the missing numbers.

C=0.15z+0.05	C=0.15z+0.05	C=0.15z+0.05	C=0.15z+0.05
C=0.15(8)+0.05	C=0.15(10)+0.05	C=0.15(12)+0.05	C=0.15(20)+0.05
C=1.20+0.05	C=1.50+0.05	C=1.80+0.05	C=3.00+0.05
C=1.25	C=1.55	C=1.85	C=3.05

## HOMEWORK

Worksheet HW 1.4 Tables of Values  
Day 2