

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Learning to Solve for a Variable in Terms of Other Variables **ANSWERS**

**Section I. Use the first problem in the row, to help you determine how to solve for that variable in other problems in the row.**

1. Solve for  $n$ : a)  $3n = 5$       b)  $mn = 5$       c)  $mn = p$

$$n = \frac{5}{3}$$

$$n = \frac{5}{m}$$

$$n = \frac{p}{m}$$

2. Solve for  $x$ : a)  $x - 4 = 10$       b)  $x - y = 10$       c)  $x - y = z$

$$x = 10 + 4$$

$$x = 10 + y$$

$$x = z + y$$

3. Solve for  $j$ : a)  $2j + 5 = 17$       b)  $2j + k = 17$       c)  $hj + k = 17$       d)  $hj + k = m$

$$j = \frac{17-5}{2}$$

$$j = \frac{17-k}{2}$$

$$j = \frac{17-k}{h}$$

$$j = \frac{m-k}{h}$$

4. Solve for  $t$ : a)  $75 = 25t$       b)  $75 = rt$       c)  $D = rt$

$$\frac{75}{25} = t$$

$$\frac{75}{r} = t$$

$$\frac{D}{r} = t$$

5. Solve for  $h$ : a)  $80 = 10h$       b)  $80 = b \cdot h$       c)  $A = b \cdot h$

$$h = \frac{80}{10}$$

$$h = \frac{80}{b}$$

$$h = \frac{A}{b}$$

6. Solve for  $r$ : a)  $50 = 200r \cdot 5$       b)  $50 = 200r \cdot t$       c)  $50 = Prt$       d)  $I = Prt$

$$r = \frac{50}{200 \cdot 5}$$

$$r = \frac{50}{200t}$$

$$r = \frac{50}{Pt}$$

$$r = \frac{I}{Pt}$$