

Answer Key

Challenge: Skills and Applications

1–5, 7. Accept equivalent forms.

1. $x = \frac{7}{6}(p - 2q)$ 2. $x = \frac{10}{3}ab - 10$

3. $x = h - \frac{1}{10}k$ 4. $x = \frac{8r + 4t - 8}{5}$

5. $d = 0.86p - 5; p = \frac{d + 5}{0.86}$ 6. about \$15.26

7. $d = 0.86(p - 5); p = \frac{d}{0.86} + 5$

8. about \$14.44

9. $y = 1200 + 0.05(x - 30,000),$
 $y = 2700 + 0.07(x - 60,000)$

10. $x = \frac{y}{0.05} + 6000, x = \frac{y}{0.07} + 21,429$

11. \$65,000