

Answer Key

Challenge: Skills and Applications

1. -24 2. 6 3. $\frac{49}{3}$ 4. 12
5. all values of x 6. no solution 7. $-\frac{1}{4}$
8. $\frac{11}{12}$ 9. $-\frac{2}{3}$ 10. $\frac{1}{90}x = \frac{1}{60}(x - 100,000)$,
where $x =$ gross income. 11. $\$300,000$; the
plans are the same when the company has a gross
income of $\$300,000$. 12. $\$3333.33$
13. The second plan is better.