

Answer Key

Challenge: Skills and Applications

1. $\frac{13}{2}, -\frac{13}{2}$ 2. $\frac{12}{5}, -\frac{12}{5}$ 3. 35, -35

4. 70, -70 5. $\frac{4}{7}$ 6. $-\frac{1}{10}$ 7. $-\frac{5}{3}$ 8. $-\frac{1}{6}$

9. 2.5 10. The transformed equation is $0x = 0$, which is true for all x , so it does not have the same solution as $4x = 12$.

11. Division by zero is undefined.

12. Sample equation: $\frac{20}{25} + \frac{d}{25} = 2$; 30 mi