

Answer Key

Practice B

1. $(0, 0, 3)$ is a solution.
2. $(-1, -2, 5)$ is a solution.
3. $(0, 0, 0)$ is *not* a solution.
4. $(-1, -3, -2)$ is a solution.
5. $(5, 7, 1)$ is *not* a solution.
6. $(-4, 8, -9)$ is *not* a solution.
7. $(-2, -8, -1)$
8. $(3, 5, 2)$
9. $(1, 0, -2)$
10. $(2, -3, 5)$
11. $(1, 1, -2)$
12. $(-6, 5, 3)$
13. $(-3, 2, 5)$
14. $(0, -2, 3)$
15. infinitely many solutions
16. $0.6x + 0.5y + 0.5z = 1770$
 $0.25x + 0.35y + 0.45z = 1165$
 $0.15x + 0.15y + 0.05z = 365$

There were 1200 pounds of pet food in the first shipment, 800 pounds of pet food in the second shipment, and 1300 pounds of pet food in the third shipment.

17. $0.55x + 0.65y + 0.60z = 3405$
 $0.25x + 0.10y + 0.20z = 1070$
 $0.20x + 0.25y + 0.20z = 1225$

There are 2000 comedies, 1700 dramas, and 2000 action movies at the store.