3.2 Challenge Practice For use with the lesson "Graph Linear Equations"

In Exercises 1-3, use the following information.

For a summer job you have a choice between working for two rival dog-walking businesses. Pedestrian Paws dog-walkers will pay you \$2 an hour plus \$3 per dog walked. Roaming Rover dog-walkers will pay you \$3 an hour plus \$2 per dog walked.

- **1.** If you walked 8 hours and had 3 different dogs to walk each hour then how much more would you earn from Pedestrian Paws dog-walkers than from Roaming Rover dog-walkers?
- **2.** What number of dogs would you have to walk in order for Pedestrian Paws to pay more than Roaming Rover?
- **3.** What number of dogs would you have to walk in order for Pedestrian Paws to pay the same as Roaming Rover?

In Exercises 4-6, use the following information.

For a summer job you have a choice between working for two rival car wash businesses. Auto Suds will pay you \$3 an hour plus \$4 per car washed. Clean Car will pay you \$5 an hour plus \$3 per car washed.

- **4.** For a one-hour period, how many cars would you have to wash in order for Auto Suds to pay more than Clean Car?
- **5.** For a one-hour period, how many cars would you have to wash in order for Auto Suds to pay \$4 more than Clean Car?
- For a one-hour period, how many cars would you have to wash in order for Auto Suds to pay the same amount as Clean Car?

In Exercises 7-9, use the following information.

For a summer job you have a choice between working for two rival lawn mowing businesses. Precision Cuts will pay you \$1.50 an hour plus \$5 per lawn mowed. Lush Lawns will pay you \$5 an hour plus \$3 per lawn mowed.

- **7.** For a one-hour period, how many lawns would you have to mow in order for Precision Cuts to pay more than Lush Lawns?
- **8.** For a one-hour period, how many lawns would you have to mow in order for Precision Cuts to pay at least \$3 more than Lush Lawns?
- **9.** For a one-hour period, how many lawns would you have to mow in order for Precision Cuts to pay at least \$1 less than Lush Lawns?