

Name _____

Algebra Word Problems

1. A bakery sells cakes for \$30 each. On average, they sell 20 cakes per week. If the bakery's weekly expenses amount to \$400, what is the weekly profit?
2. Rachel commutes to work, which is 40 miles away. She drives at an average speed of 50 miles per hour. If she makes no stops along the way, how long does her commute take?
3. A parent starts saving for their child's college fund with an initial deposit of \$5000. They plan to invest an additional \$2000 at the beginning of each year for 15 years in an account that earns 6% interest compounded annually. How much money will be in the account when their child starts college?
4. A city's population is currently 50,000 and is growing at a rate of 2% per year. How long will it take for the population to reach 60,000?
5. Jessica invests \$15,000 in mutual funds and \$10,000 in bonds. The mutual funds earn an average annual return of 7%, and the bonds earn an average annual return of 4%. How much interest does Jessica earn in one year?
6. Mike wants to remodel his bathroom. The cost of materials is \$2000, and he expects to spend \$30 per hour on labor. If the total cost of labor is \$1200, how many hours does it take to complete the remodeling?
7. A school club sells tickets for \$10 each. They sell 150 tickets and have expenses totaling \$700. How much profit does the club make?
8. David runs on a track at a speed of 8 miles per hour for 30 minutes each day. How many miles does he run in one week?
9. A landlord rents out an apartment for \$1500 per month. The expenses for maintaining the apartment amount to \$600 per month. What is the annual profit if the apartment is rented out for 11 months in a year?
10. Lisa's monthly income is \$4000. She spends 25% of her income on rent, 20% on groceries, 15% on utilities, and saves the rest. How much does she save each month?

