EXTRA PRACTICE — Exercises

Unit II – First Degree Relations with One Placeholder
Part E – Problem Solving Using One Placeholder
Lesson 3 – "Consecutive Integer" Problems

For each of the following story problems, answer the five analysis questions to find the open sentence needed to solve. Then solve and use common sense to check your answer.

1. The sum of three consecutive integers is ninety-six. What are the integers?

2. The larger of two even consecutive integers is, eight less than twice the smaller. Find the integers.

3. The sum of four consecutive integers is ¯226. What are the integers?

4. The sum of three consecutive even integers is 444. What are the integers?

5. The smaller of two consecutive even integers is, six more than one-half the larger. Find the integers.

6. Find four consecutive integers such that, twice the sum of the two larger integers, exceeds three times the first, by ninety-one.

7. Find three consecutive integers whose sum is, thirty-seven less than five times the third integer.

8. Three even consecutive integers are such that the sum of the second and third integers is, thirty more than the first integer. Find the integers.

9. Find three consecutive odd integers such that five times the second, decreased by twice the third, is 155.

10. Three consecutive odd integers are such that twice their sum is, thirty less than, eight times the third integer. Find the integers.

EXTRA PRACTICE — Answer Key

Unit II – First Degree Relations with One Placeholder
Part E – Problem Solving Using One Placeholder
Lesson 3 – "Consecutive Integer" Problems

For each of the following story problems, answer the five analysis questions to find the open sentence needed to solve. Then solve and use common sense to check your answer.

1. The three consecutive integers are 31, 32 and 33.

2. The two consecutive even integers are 10 and 12.

3. The four consecutive integers are $^{-}58$, $^{-}57$, $^{-}56$, $^{-}55$.

4. The three consecutive even integers are 146, 148, and 150.

5. The two consecutive even integers are 14 and 16.

6. The four consecutive integers are 81, 82, 83 and 84.

7. The three consecutive integers are 15, 16, and 17.

8. The three consecutive even integers are 24, 26, and 28.

9. The three consecutive odd integers are 51, 53, and 55.

10. The three consecutive odd integers are 5, 7, and 9.