

EXTRA PRACTICE — Exercises

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Unit II – First Degree Relations with One Placeholder

Part E – Problem Solving Using One Placeholder

Lesson 4 – “Age” 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. Gary, Barry and Terry belong to a car club. Gary’s car is, five times as old as Barry’s car, and Terry’s car is, six years younger than Gary’s. In three years, the age of Terry’s car will be twice the age of Barry’s. How old is Gary’s car now?
2. The barn on Sue’s small farm was built 10 years before the garden shed and twenty years after the house. Twenty years ago, the age of the house was the same as the combined ages of the barn and the garden shed. What is the present age of each building?
3. Angela is, nineteen times as old as Montrew. Sonya is, 30 years younger than Angela. In six years, Angela’s age will be twice the sum of Montrew’s and Sonya’s ages then. How old is each person?
4. There is a three-year age difference between each boy in the Nelson Family and his next older brother. If there are four boys in the family and the sum of their ages is thirty-eight, how old was the oldest on his last birthday?
5. A father is forty-two years old and has a son nine years old. In how many years will the age of the son be one-fourth that of the father?
6. In seven years, Maria will be, four times as old as Caitlin will be then. The sum of their ages now is eighty-six. How old will each of them be in three years?
7. At a local school, Bus #1 is three times as old as Bus #2, and Bus #3 is sixteen years younger than Bus #1. One year ago, the age of Bus #1 was twice the sum of the ages of Bus #2 and Bus #3. Find the present age of each bus.
8. Eric has lived in three houses during his lifetime. The first house where he lived, as a small child, is four times as old as the house where he presently lives. The second house he lived in is, 12 years newer than his first home. Nine years from now, four times the age of Eric’s present house will be ten years less than the sum of the ages of house #1 and house #2. Find the present age of each house.
9. Eleven years ago, Howard was, four times as old as his brother. In one year, Howard will be twice as old as his brother is now. What are their ages now? (*Hint: start with the ages 11 years ago*)
10. Mary is, ten years younger than her brother. In three years, the sum of their ages will be twenty-four. Find their ages now.

EXTRA PRACTICE — Answer Key

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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. Age of Barry’s car is 3 years
Age of Gary’s car is 15 years
Age of Terry’s car is 9 years
2. The garden shed is 40 years old
The barn is 50 years old
The house is 70 years old
3. Montrew’s age is 2 years
Angela’s age is 38 years
Sonya’s age is 8 years
4. Age of youngest brother is 5 years
Age of third oldest brother is 8 years
Age of second oldest brother is 11 years
Age of oldest brother is 14 years
5. This will occur in 2 years
6. Marla’s age is 73 years
Caitlin’s age is 13 years
7. Age of bus #2 is 7 years
Age of bus #1 is 21 years
Age of bus #3 is 5 years
8. Age of present house is 10 years
Age of first house is 40 years
Age of second house is 28 years
9. Howard’s brother’s age now is 16 years
Howard’s age now is 31 years
10. The brother is 14 years old
Mary’s age now is 4 years