Name:

Algebra

Section 1.7

**Translate each problem into an equation**

1. Luke has $5 more than Sam.

Together they have $73.

How much money does each have?

2. Lyn has twice as much money as Jo.

Together they have $63.

How much money does each have?

3. There were 12 people on the jury.

There were 4 more men than women.

How many men were there?

4. State College has 620 students.

There are 20 more women than men.

How many women are there?

5. Lee bicycled 3 km farther than Wing.

The sum of the distances they bicycled was 25 km.

How far did each bicyclist go?

6. Brenda drove three times as far as Jan.

Brenda drove 24 miles more than Jan.

How far did Jan drive?

7. Lisa walked 8 km more than Tim.

Lisa walked twice as far as Tim.

How far did each walk?

8. The Ravens won twice as many games as they lost.

They played 96 games.

How many games did they win?

9. Shelley made five more sales calls than Clark.

Shelley and Clark made a total of 33 sales calls.

How many sales calls did each make?

10. Skip had eight fewer job interviews than Woody.

Together they had 20 interviews.

How many interviews did each have?

11. Amanda spent $2 more than Berry on school supplies.

Together they spent $34.

How much money did each spend?

12. The number of items on two grocery lists differs by 7.

The total number of items is 33.

How many items are on each list?

**Translate each problem into an equation. Drawing a sketch may help you.**

13. A ribbon 9 feet long is cut into two pieces. One piece is 1 foot longer than the other. What are the lengths of the pieces?

14. The height of a tower is three times the height of a certain building. If the tower is 50 m taller than the building, how tall is the tower?

15. The length of a rectangle is twice its width. If the perimeter is 60, find the dimensions of the rectangle.