Answers

**Algebra**

**Unit 3 Line Master 7g**

**Part 1**

1. 50 cm2

2. Answers may vary; the results should agree.

3. a) 112.5 cm2 b) 216 cm2 c) 5985 cm2

4. 1 cm and 36 cm, 2 cm and 18 cm, 3 cm and 12 cm, 4 cm

 and 9 cm, 6 cm and 6 cm; areas determined by the application

 should all be 36 cm2.

5.

output “I will calculate the area of your rectangle.”

output “Enter the length of the rectangle in
 metres:”

**length** = user input

output “Enter the width of the rectangle in metres:”

**width** = user input

**area** = **length** \* **width**

output “The area is “, **area**, “ square metres.”

**Part 2**

1. a) When *d* = 20 cm, *r* = 10 cm,
 so $π$*r*2$ ≈$ (3.14)(10)2

 $ ≈$ (3.14)(100)
 $ ≈$ 314
 The area is about 314 cm2.

 b) 314 cm2

2. a) 113 cm2 b) 3215 cm2 c) 11 304 cm2

3. Answers will vary.
 Sample: Because you just have to enter different dimensions for
 a rectangle or a different diameter for a circle and the program
 does all the calculations, it makes it easy to calculate the areas
 of lots of different rectangles or circles.