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 *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.