Section 2.3 Exercises Part A

1. Using the formula for a rectangle and a calculator, fill out the <u>f</u>ollowing table:

length	width	Perimeter	Area
5	7		
14	3		
7.2	18.34		
13	2.5		
15	17		
16	33		
281	541.5		

2. If the unit for length and width in #1 is inch, what are the units for Perimeter and Area?

3. If the unit for length and width in #1 is centimeter, what are the units for Perimeter and Area?

4. Using the formula for a rectangle and a spreadsheet (Create a new file called Formula Practice), fill out the table in #1 using the formula abilities of the spreadsheet.

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radius	Circumference	Area
3		
12		
5.1		
17		
4		
38		
114		

5. Using the formula for a circle and a calculator, fill out the following table:

6. If the unit for radius in #5 is feet, what are the units for Circumference and Area?

7. If the unit for radius in #1 is kilometer, what are the units for Circumference and Area?

8. Using the formula for a circle and a spreadsheet, fill out the table in #5 using the formula abilities of the spreadsheet.

radius	height	slant height	LSA	SA	Volume
3	4	5			
5	12	13			
15	8	17			
24	7	25			
6	8	10			

9. Using the formula for a cone and a calculator, fill out the following table:

10. If the unit for radius, height and slant height in #9 is inch, what are the square units for Lateral Surface Area, Surface Area, and Volume?

11. If the unit for radius, height and slant height in #9 is centimeter, what are the square units for Lateral Surface Area, Surface Area, and Volume?

12. Using the formula for a cone and a spreadsheet, fill out the table in #9 using the formula abilities of the spreadsheet.

13. Open your, "Budget and Expense" spreadsheet. Make sure that all budgets and expenses are updated. Using the "sum" formula, create cells that are the totals of your expenses and incomes. This spreadsheet will be submitted in your portfolio.

Answers:

1.

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length	width	Perimeter	Area
5	7	24	35
14	3	34	42
7.2	18.34	51.08	132.048
13	2.5	31	32.5
15	17	64	255
16	33	98	528
281	541.5	1645	152,161.5

2. $P - in; A - in^2$

3. P – cm; A – cm²

4. On Spreadsheet

5.		
radius	Circumference	Area
3	18.85	28.27
12	75.40	452.39
5.1	32.04	81.71
17	106.81	907.92
4	25.13	50.27
38	238.76	4,536.46
114	716.28	40,828.14

6. C – ft; A – ft^2

7. C – km; A – km²

8. On Spreadsheet

9.

radius	height	slant height	LSA	SA	Volume
3	4	5	47.12	75.40	37.7
5	12	13	204.20	282.74	314.1
15	8	17	801.11	1507.96	1884.9
24	7	25	1884.96	3694.51	4222.3
6	8	10	188.50	301.59	301.5

10. LSA $-in^2$; SA $-in^2$; V $-in^3$

11.
$$LSA - cm^2$$
; $SA - cm^2$; $V - cm^3$

12. On Spreadsheet

13. In Portfolio