

Variables and Expressions

Part A: Complete the following table

#	Context	Variable (Let...)	Expression
1	A caterer charges a flat fee of \$400 plus \$15/person.		
2	An internet package charges a flat fee of \$10 plus \$0.40 per hour.		
3	The temperature of hot water placed in the freezer is 80° C and it is decreasing at the rate of 8° C per hour.		
4	A tree's diameter grows by $1\frac{3}{4}$ cm per year. The tree's diameter is currently 12 cm.		
5	A spring is 14 cm long with no mass on it and it grows by 3 cm per kg put on it.		

Part B: For each expression, create a real world context. Identify the independent variable (x) and indicate what the result of evaluating the expression would tell us..

1. $15x$

2. $0.05x + 25$

3. $20x - 100$
