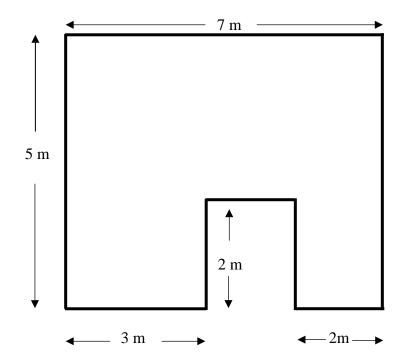
7. Examine the diagram of the family room below.



a) Find the area of the family room. Write the equation and **show your work.** (3 marks)

The Area is=_____

b) Find the perimeter of the family room. Write the equation and **show your work**. (3 marks)

Total Perimeter is = _____

c) The perimeter of the family room is have an electrical outlet every 2.0 m. What would the total cost be if the outlets be if they cost \$2.49 each? (2 marks)

Total Cost is = _____

December 2015

Ursula Franklin Academy

Admissions Assessment Problem Solving ~ Numeracy

Student's Name:

Total /2

ıstruc	ctions	;			Please	IIII
Use	the s	paces or	n this paper t	for rough	work.	
Mu	ltiple	choice c	uestions are	worth 1	point ea	ch.
	_	-	or pencil.		-	
Be	sure to	show a	all calculation	ns, wher	e applica	ble.
ultip	le Ch	oice:	Record th	e correc	t letter (a, b, c, d, or e) in the space provided.
	If then		yellow mart	oles in a b	oag of 25	marbles, what percentage of marbles are not
	a.	21%		d.	72%	
	b.	28%		e.	27%	
	c.	85%				Answer:
	Evalu	ate:	$3 \times 7 - (3.4)$	1 - 0.6) ÷	0.7 + 4	< 6
	a.	78		d.	33	
	b.	14		e.	41	
	c.	45				Answer:
			mer's marke to buy 1.78		cheese	s on sale for \$16.50 per kilogram. How much
	a.	\$29.3	7	d. \$	9.27	
	b.	\$ 9.26)	e. \$	297.00	
	c.	\$ 29.7	0			Answer:
						ing. He runs around the 4 km running track x ebraic expression for the distance Ahmed runs is:
			ns 0.3 km to			
	times,	then ru	ns 0.3 km to 4x		The alg	ebraic expression for the distance Ahmed runs is: $2x + 1.8$

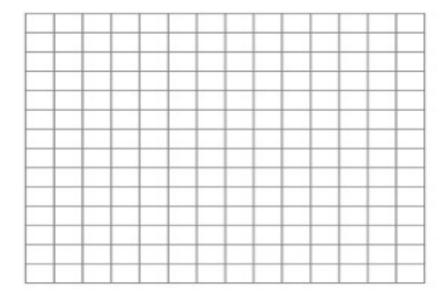
5. Dr. Gallagher, an anthropologist studying communication trends, noted the amount of mail sent during various decades.

Table 1: Average pieces of Canadian mail sent per person

Year	Pieces of Mail
1800	10
1840	10
1910	60
1960	90

a. Use a graph to illustrate the data found in Table 1. (4 marks)

Title:



- b. What is the trend that the graph shows? (1 mark)
- c. Predict what you think happens to the trend for pieces of mail.
 Will it increase or decrease? (1 mark) Explain your answer. (1 mark)

	clear liquid. At the time of the discovery, no liquid remains, only a hard white layer on the bottom of the pot.
	Was the original liquid a solution or mechanical mixture? Why? (2 marks)
b.	The chef returns and realizes that she had inadvertently boiled off the water, leaving only salt. She lets the pot cool, then adds cold water. She notices that the salt at the bottom doesn't immediately mix into the water completely, even after stirring. What could she do to speed things up? Why does this work? (2 marks)
c.	Why is it always a good idea to use cold water, and not hot water, out of a tap, for cooking purposes even though using hot water would be faster? (2 marks)

6. a. A stovetop burner is accidentally left on in a restaurant kitchen that held a pot filled with