

**1- Contents**

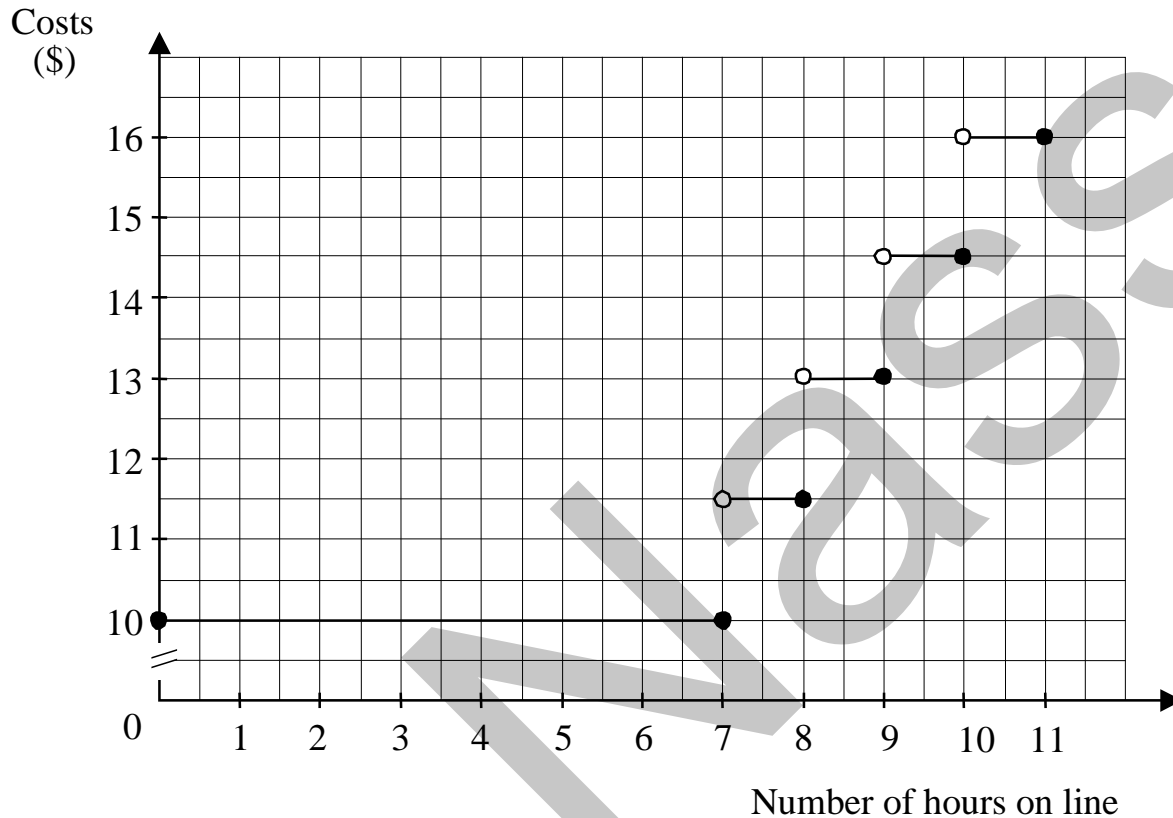
Question	Item	Objective	Type	Skill
1	2027	ALG.01	Multiple-choice answer	Concepts
2	0242	ALG.01.05	Multiple-choice answer	Concepts
3	0130	ALG.01.04	Short-constructed answer	Applications
4	0055	ALG.01.04	Short-constructed answer	Applications
5	0001	ALG.01	Multiple-choice answer	Concepts

**2- Correction key**

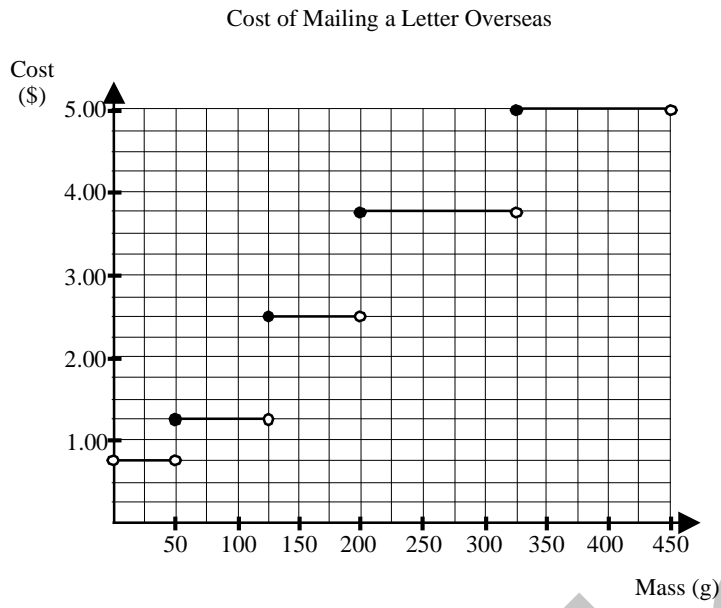
1 C

2 C

### Monthly Internet Fees



4



5

D

Name : \_\_\_\_\_

Group : \_\_\_\_\_

Date : \_\_\_\_\_

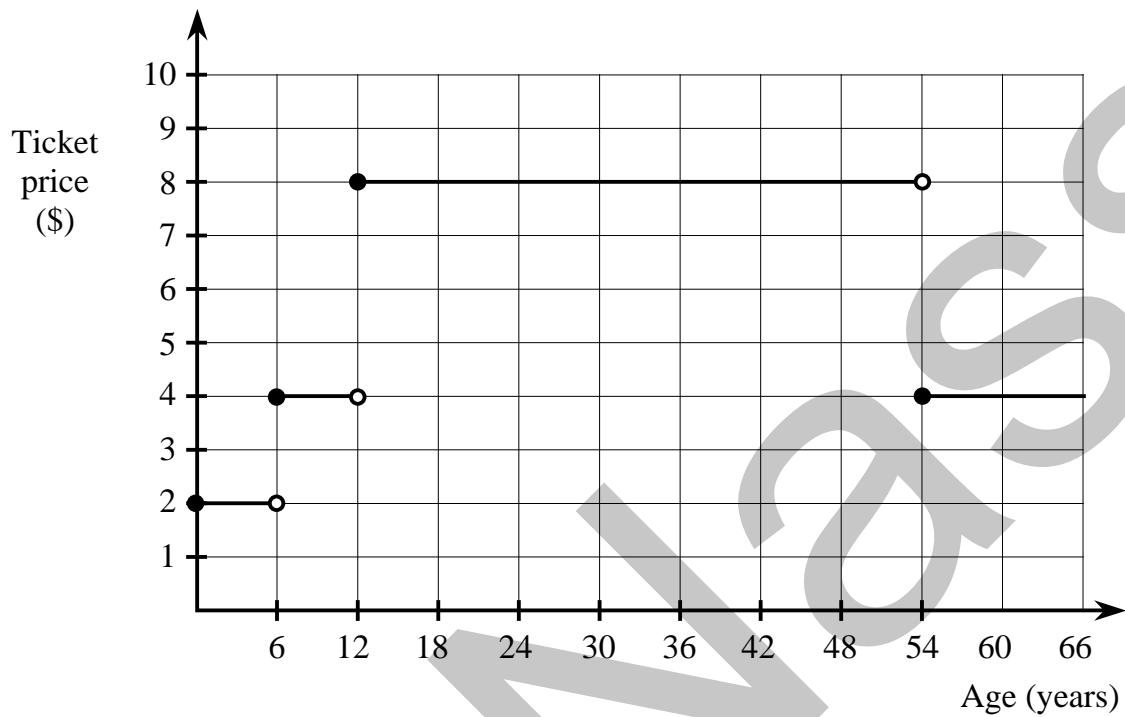
**568416 - Mathematics**

**Question Booklet**

MS.

Ms. Narasiff

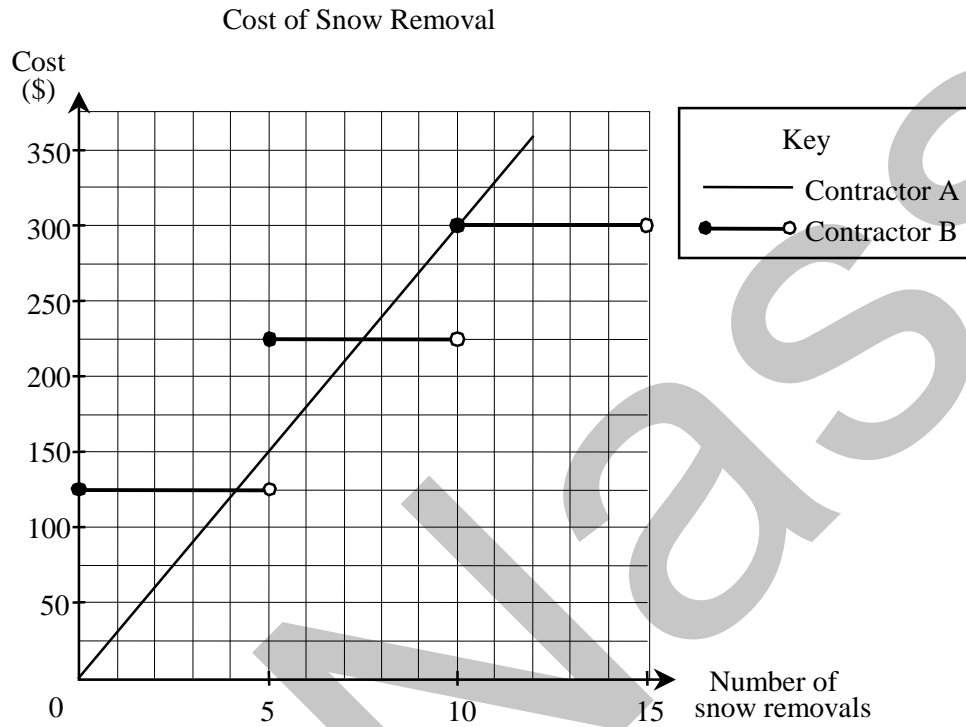
1 The graph below shows that different age groups pay different ticket prices to a sports event.



Which of the following statements is true?

- A) A 12-year-old pays \$4 and a 13-year-old pays \$8.
- B) A 6-year-old pays \$2 and a 12-year-old pays \$8.
- C) A 7-year-old pays \$4 and a 54-year-old pays \$4.
- D) A 6-year-old pays \$4 and a 54-year-old pays \$8.

2 After comparing the cost of snow removal with two contractors, Mr. Kelly constructed the graph below.



In analyzing the graph, he made the following conclusions:

- 1- For 5 snow removals, contractor B charges less than contractor A.
- 2- For 5 snow removals, the difference in snow-removal costs between contractor A and contractor B is \$75.
- 3- For 10 snow removals, both contractors charge the same amount.

Which of Mr. Kelly's conclusions are TRUE?

A) 1 and 2 only

C) 2 and 3 only

B) 1 and 3 only

D) 1, 2 and 3

3 Mary would like a hook up for the Internet.

She signs up with the "NetPlus" provider.

The monthly fees for a first-time user are listed below.

Number of hours on line	Fees (\$)
[0, 7]	10.00
]7, 8]	11.50
]8, 9]	13.00
]9, 10]	14.50
]10, 11]	16.00

Draw the graph of this situation.

4

Students in a French course are pen pals with students in Europe. They wish to know the cost of mailing a letter overseas.

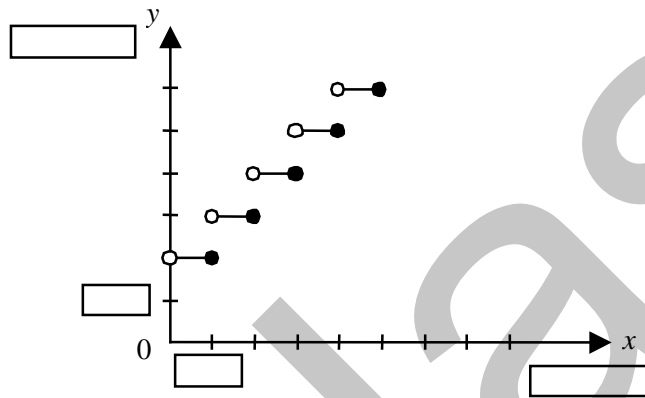
Using the following table of values, construct a graph to represent this situation.

Mass (grams)	Mailing Cost (\$)
$0 < \text{mass} < 50$	0.75
$50 \leq \text{mass} < 125$	1.25
$125 \leq \text{mass} < 200$	2.50
$200 \leq \text{mass} < 325$	3.75
$325 \leq \text{mass} < 450$	5.00



- 5 A long distance call between two particular cities costs \$1.00 for the first minute. Each additional minute costs \$0.50.

The step graph below represents this situation.



From the given information, which of the following choices represents the dependent variable, the independent variable and the appropriate scale for each axis ?

	Dependent Variable	Independent Variable	Scale	
			x-axis	y-axis
A)	LENGTH	COST	1	50
B)	COST	LENGTH	50	1
C)	LENGTH	COST	50	1
D)	COST	LENGTH	1	50