

8th GRADE MATHEMATICS TEST PREP
In the diagram below, three lines intersect at N. The measure of $\angle GNF$ is 60° measure of $\angle ANH$ is 47°.

#7) What is the measure of $\angle HNR$?

- A 47°
B 60°
C 73°
D 107°

$$60 + 47 + x = 180$$

$$107 + x = 180$$

$$-107 \quad -107$$

$$x = 73$$



QUESTION #8

The table below shows the cost of different numbers of goldfish at a pet store.

COST OF GOLDFISH

Number of Goldfish	Cost
5	\$1.50
10	\$3.00
15	\$4.50
20	\$6.00

$$m = \frac{1.50}{5}$$

$$m = 0.30$$

The cost is a linear function of the number of goldfish. Which statement describes the rate of change of this function?

- A The cost increases \$0.30 each time 1 goldfish is added.
B The cost increases \$1.50 each time 1 goldfish is added.
C The cost increases \$3.00 each time 5 goldfish are added.
D The cost increases \$6.00 each time 5 goldfish are added.

QUESTION #9

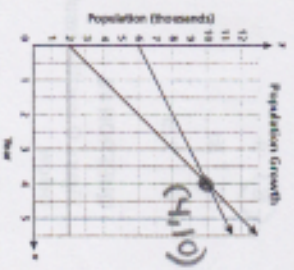
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The population growth of two towns over a period of five years is represented by the equations below, both algebraically and graphically.

$$y = x + 6$$

$$y = 2x + 2$$

Which ordered pair is the solution to the system of equations?

- A (2, 6)
B (4, 10)
C (6, 2)
D (10, 4)



QUESTION #10

The four tables below show relationships in which the x values represent inputs and the y values represent the corresponding outputs.

Q		R		S		T	
x	y	x	y	x	y	x	y
-2	-3	-1	-5	-2	3	3	4
1	3	2	4	1	3	4	5
3	-3	3	7	3	3	3	-4
5	3	4	10	5	3	4	-5

Which table represents a relationship that is not a function?

- A Q
B R
C S
D T

Repeats an x-value → not a function.