MATHEMATICS 9

A. Click **D** if the given pair of quantities shows a **direct proportion** or **I** if it shows an **inverse proportion**.

1. number of Christmas balls and size of Christmas tree _____

2. temperature and number of clothes on _____

3. amount of decibels and the volume of a speaker _____

4. number of cleaners and the space to clean _____

5. amount of time awake and amount of time asleep in 24 hours _____

B. Divide the number in the box proportional to the given ratio and solve for the value of the **smallest** part. Type the letter of the correct answer in the box.

_____1.)	216	2:6	a. 27	b. 54	c. 36
_____2.)	231	3:4	a. 66	b. 33	c. 99
_____3.)	182	5:8	a. 14	b. 112	c. 70
_____4.)	480	4:5:6	a. 192	b. 128	c. 32
_____5.)	1320	7:8:9	a. 385	b. 330	c. 55

C. Solve the following problems. Show your solution and write your final answer on the blank.

Problems	Solutions and Answers
1. If 8 oranges cost ₱56.00, what is the cost of 28 oranges?	Answer: _____

2. The length of a frame is 9 inches and its width is 2 inches. If the length will become 22.5 inches, how wide will the frame be?

Answer: _____

3. An elevator can accommodate 9 persons if each weighs 50 kg. How many persons can ride the elevator if each weighs 45 kg?

Answer: _____

4. An orphanage has enough food to feed 30 orphans for 12 days. If 10 more orphans are added, how many days will the same amount of food last?

Answer: _____

5. There are 120 animals in a farm consisting of ducks, goats, cows, and carabaos in the ratio of 2:3:4:3, respectively. How many more carabaos are there than ducks?

Answer: _____