

1. Answer: C

Explanation: To transform a ratio into its fractional form, we just write the first number of the ratio as the numerator, then the second number as the denominator.

Thus, 5 : 6 is $\frac{5}{6}$ in fractional form.

2. Answer: B

Explanation: The problem is asking us to determine the ratio of hens to the total number of chickens. This problem is an example of a "part to a whole" ratio.

The total number of chickens is the sum of the number of roosters and number of hens: $15 + 18 = 33$

Meanwhile, there are 15 hens.

Therefore, the ratio of hens to the total number of chickens is 15 : 33.

3. Answer: B

Explanation: To find the value of N in $8 : N = 16 : 50$, we just apply the rule that in a proportion, the product of the means is equal to the product of the extremes .

Product of the means: $N \times 16$

Product of the extremes: $50 \times 8 = 400$

Since the product of the means is equal to the product of the extremes:

$$N \times 16 = 400$$

What must be multiplied to 16 so that we obtain 400? That number is 25 ($400 \div 16$)

Hence, the answer is 25.

4. Answer: C

Explanation: We will just use the same method we used in Item 3 to solve for A in $A : 13 = 3 : 39$

Product of the means: $13 \times 3 = 39$

Product of the extremes: $A \times 39$

Since the product of the means is equal to the product of the extremes in a proportion:

$$39 = A \times 39$$

What must be multiplied to 39 to obtain itself? That number is 1.

Hence, A must be equal to 1.

5) Answer: C

Explanation: Four slices of an egg pie cost PHP 150. We can express the ratio of the number of slices of egg pie to its price as $4 : 150$. The problem is asking us to determine how much is twelve slices of the egg pie.

Let N be the price of the 12 slices of egg pie.

We can construct this proportion below:

$$4 : 150 = 12 : N$$

Product of the Means: $150 \times 12 = 1800$

Product of the Extremes: $4 \times N$

Since the product of the means is equal to the product of the extremes in a proportion:

$$1800 = 4 \times N$$

What must be multiplied to 4 to obtain 1800? That number is 450 ($1800 \div 4$)

Hence, $N = 450$.

The cost of twelve slices of the egg pie is PHP 450.