



## Operations on Fractions and Decimals

Answer Key

1) Answer: D

Explanation:

$\frac{2}{3}$  and  $\frac{1}{4}$  are dissimilar fractions. Thus, before adding them, we need to transform them into similar fractions.

The LCD of 3 and 4 is 12. Thus, 12 will be the new denominator of our fractions.

To obtain the respective numerators of the fractions. Divide the LCD by the denominator of the fraction and multiply the result to the numerator.

Let us perform this for  $\frac{2}{3}$  :

$$12 \div 3 = 4 \times 2 = 8$$

Thus, our first fraction is  $\frac{8}{12}$ .

Let us perform the same method with  $\frac{1}{4}$  .

$$12 \div 4 = 3 \times 1 = 3$$

Thus, our second fraction is  $\frac{3}{12}$ .

Now, let us add the fractions we have obtained.

$$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$



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**2) Answer: A**

**Explanation:** When multiplying fractions, we can just multiply numerator by numerator and denominator by denominator. Afterward, reduce the obtained fraction to its lowest terms.

$$\frac{3}{5} \times \frac{4}{6}$$
$$\frac{3}{5} \times \frac{4}{6} = \frac{12}{30}$$

We can simplify  $\frac{12}{30}$  into its lowest terms by dividing 12 and 30 by their GCF (which is 6).

$$\frac{12 \div 6}{30 \div 6} = \frac{2}{5}$$

Thus, the answer is  $\frac{2}{5}$ .

**3) Answer: B**

**Explanation:**

$$2 \frac{3}{5} - 1 \frac{1}{5}$$

We start by subtracting the whole numbers first:

$$2 - 1 = 1$$

Thus, the whole number part of our resulting mixed number is 1.

Now, let us subtract the proper fractions  $\frac{3}{5}$  and  $\frac{1}{5}$ . Note that these fractions are similar fractions so we can just subtract the numerators then copy the denominator:

$$\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$$

Lastly, we combine the whole number and the obtained proper fraction. Thus, the answer is  $1 \frac{2}{5}$ .

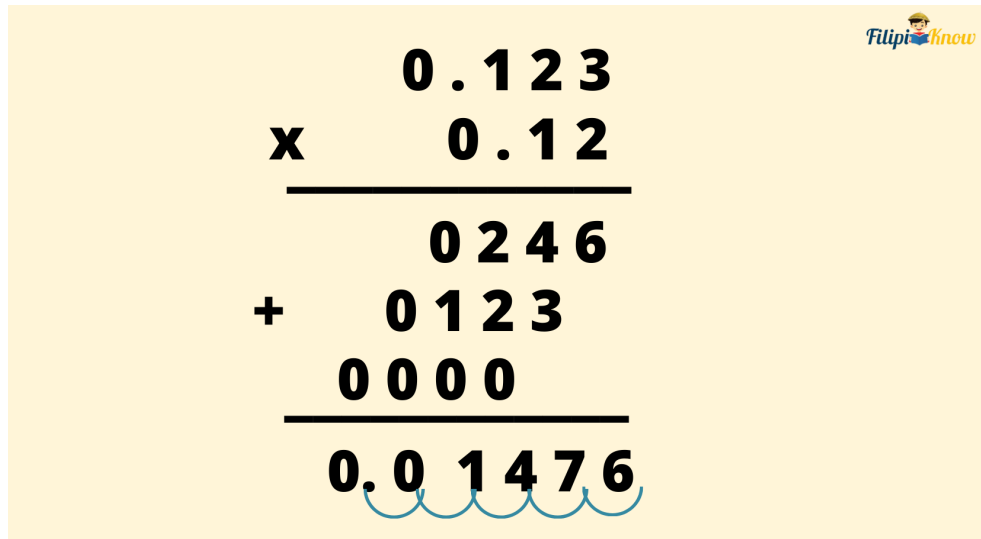


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4) Answer: A

Explanation:



The image shows a handwritten multiplication problem on a yellow background. It is a vertical multiplication of two decimal numbers: 0.123 and 0.12. The multiplier 0.12 is on the left, and the multiplicand 0.123 is on the right. A horizontal line is drawn under the multiplicand. The first partial product is 0246, which is aligned under the last two digits of the multiplicand. The second partial product is 0123, which is aligned under the first two digits of the multiplicand. A second horizontal line is drawn under the second partial product. The final product is 0.01476, with blue wavy lines under the digits 01476. A small FilipiKnow logo is in the top right corner of the yellow box.

Recall that to multiply decimals, we start by multiplying them just like whole numbers by disregarding the decimal point for a while. Since 0.123 has three decimal places and 0.12 has two decimal places, then the final answer must have five decimal places.

Therefore, the answer is 0.01476.

5) Answer: B

Explanation:

$$\frac{1}{3} \div 9$$

The reciprocal of 9 is  $\frac{1}{9}$ . Thus, we transform 9 into  $\frac{1}{9}$ . Afterward, we multiply  $\frac{1}{9}$  to  $\frac{1}{3}$



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$$\frac{1}{3} \times \frac{1}{9}$$

$$\frac{1}{27}$$



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