Topic: Decimal arithmetic

Question: Find the sum.

$$2.53 + 2.351$$

Answer choices:

A 4.88

B 5.881

C 4.881

D 3.883

Solution: C

Line up the decimal points and then add. There's no need to worry about the fact that one of the numbers has more digits to the right of the decimal point than the other number does.

We just pretend that there's a 0 after the 3 in 2.53 (we pretend that it's 2.530), so that the two decimal numbers we're adding have the same number of digits (in this case three digits) to the right of the decimal point.

$$\begin{array}{r} 2.530 \\ +\ 2.351 \\ \hline 4.881 \end{array}$$

Topic: Decimal arithmetic

Question: Find the difference.

$$10.84 - 7.635$$

Answer choices:

A 3.205

B 32.05

C 4.2

D 1.327

Solution: A

Line up the decimal points and then subtract, adding 0's to the end of one of the decimal numbers if necessary (to get the same number of digits to the right of the decimal point in both decimal numbers) before doing the subtraction.

$$\begin{array}{r} 10.840 \\ -\ 7.635 \\ \hline 3.205 \end{array}$$

Topic: Decimal arithmetic

Question: Find the product.

$$1.5 \times 2.35$$

Answer choices:

A 3525

B 35.25

C 3.525

D 352.5

Solution: C

Multiply normally, ignoring the decimals.

$$\begin{array}{r} 2.35 \\ \times\ 1.5 \\ \hline 1175 \\ +2350 \\ \hline 3525 \end{array}$$

Between the two given numbers, there are three digits to the right of the decimal place, so we'll move the decimal three places to the left.

$$3525$$

$$3.525$$