

**Topic:** Unit price

**Question:** If the price of apples is two for \$0.50, how many apples can we buy for \$3.00?

**Answer choices:**

- A      8
- B      6
- C      4
- D      12



**Solution: D**

If we can buy two apples for \$0.50, that means we can buy one apple for \$0.25

$$\frac{2 \text{ apples} \div 2}{\$0.50 \div 2} = \frac{1 \text{ apple}}{\$0.25}$$

Then, since we can buy one apple for \$0.25, the number of apples we can buy for \$3.00 can be found by dividing the total price (\$3.00) by the price per apple (\$0.25).

$$\$3.00 \div \$0.25$$

$$12$$



**Topic: Unit price**

**Question:** What's the price per ounce if a box of cereal costs \$4.80, and there are 16 ounces in the box.

**Answer choices:**

- A      \$0.50
- B      \$1.00
- C      \$0.40
- D      \$0.30



**Solution: D**

Since 16 ounces costs \$4.80 and we want to find the price per ounce, we can set up a proportion and let the variable  $x$  be the price per ounce.

$$\frac{16 \text{ ounces}}{\$4.80} = \frac{1 \text{ ounce}}{x}$$

Now we'll cross multiply.

$$x(16 \text{ ounces}) = \$4.80(1 \text{ ounce})$$

Next we'll divide both sides of this equation by 16 ounces, to get the  $x$  all by itself.

$$\frac{x(16 \text{ ounces})}{16 \text{ ounces}} = \frac{\$4.80(1 \text{ ounce})}{16 \text{ ounces}}$$

$$x = \frac{\$4.80(1 \text{ ounce})}{16 \text{ ounces}}$$

Canceling units, we get

$$x = \frac{\$4.80}{16}$$

$$x = \$0.30$$



**Topic:** Unit price

**Question:** Write the statement “I can buy 3 pencils for \$0.25.” as a ratio.

**Answer choices:**

A  $\frac{3}{\$0.25}$  pencils

B  $\frac{1}{\$0.15}$  pencils

C  $\frac{5}{\$0.50}$  pencils

D None of these



**Solution: A**

In the statement

“I can buy 3 pencils for \$0.25.”

we’re saying that we can get 3 pencils for every \$0.25. Or 3 pencils per each \$0.25. Therefore, we can write that ratio as

$$\frac{3}{\$0.25} \text{ pencils}$$

