

Apples and Oranges

At the corner produce market, apples cost \$1 each and oranges cost \$2 each.

1. Find the cost of:

a. 6 apples and 3 oranges

$$\begin{array}{r} 1 \cdot 6 + 2 \cdot 3 = \$12 \\ 6 + 6 \end{array} \quad \$12$$

b. 4 apples and 4 oranges

$$\begin{array}{r} 1 \cdot 4 + 2 \cdot 4 = \$12 \\ 4 + 8 \end{array}$$

c. 5 apples and 4 oranges

$$\begin{array}{r} 1 \cdot 5 + 2 \cdot 4 = \$13 \\ 5 + 8 \end{array}$$

d. 8 apples and 2 oranges

$$\begin{array}{r} 1 \cdot 8 + 2 \cdot 2 = \$12 \\ 8 + 4 \end{array}$$

2. Louis has \$10 to spend at the produce market. Can he buy 7 apples and 2 oranges? Explain or show your reasoning.

No

$$\begin{array}{r} 1 \cdot 7 + 2 \cdot 2 = \$11 \\ 7 + 4 \end{array}$$

3

3. What combinations of apples and oranges can Noah buy if he spends all of his \$10?

6A 2OR	$\begin{array}{r} 1 \cdot 6 + 2 \cdot 2 \\ 6 + 4 \\ 10 \end{array}$	4OR 2A	$\begin{array}{r} 1 \cdot 2 + 2 \cdot 4 \\ 2 + 8 \\ 10 \end{array}$	8A 1OR	$\begin{array}{r} 1 \cdot 8 + 2 \cdot 1 \\ 8 + 2 \\ 10 \end{array}$
-----------	---	-----------	---	-----------	---

4. Use two variables to write an equation that represents \$10-combinations of apples and oranges. Be sure to say what each variable means.

x: Apples (\$1 each)

y: Oranges (\$2 each)

$$1x + 2y = 10 \quad \text{OR} \quad x + 2y = 10$$

5. What are 3 combinations of apples and oranges that make your equation true?
What are three combinations of apples and oranges that make it false?

TRUE

Q # 3

FALSE

Q # 1