

The Distributive Property 1 - KEY

Use the Distributive Property to remove the parentheses from the following expressions.

$$\begin{aligned} 1) \quad & 2(3 \text{ apples} + 4 \text{ bananas}) \\ & = 6 \text{ apples} + 8 \text{ bananas} \end{aligned}$$

$$\begin{aligned} 2) \quad & 5(1 \text{ cherry} + 2 \text{ grapes}) \\ & = 5 \text{ cherries} + 10 \text{ grapes} \end{aligned}$$

$$\begin{aligned} 3) \quad & 4(3 \text{ quarts} - 2 \text{ scoops}) \\ & = 12 \text{ quarts} - 8 \text{ scoops} \end{aligned}$$

$$\begin{aligned} 4) \quad & 1(2 \text{ bags} + 5 \text{ ties}) \\ & = 2 \text{ bags} + 5 \text{ ties} \end{aligned}$$

$$\begin{aligned} 5) \quad & 8(2 \text{ eggs} + 3 \text{ slices bacon}) \\ & = 16 \text{ eggs} + 24 \text{ slices bacon} \end{aligned}$$

$$\begin{aligned} 6) \quad & 6(5 \text{ eggs} - 2 \text{ yolks}) \\ & = 30 \text{ eggs} - 12 \text{ yolks} \end{aligned}$$

$$\begin{aligned} 7) \quad & \frac{1}{2}(6 \text{ cups flour} + 2 \text{ tsp salt}) \\ & = 3 \text{ cups flour} + 1 \text{ tsp salt} \end{aligned}$$

$$\begin{aligned} 8) \quad & 20(1 \text{ gal. gas} + 2 \text{ oz. oil}) \\ & = 20 \text{ gal. gas} + 40 \text{ oz. oil} \end{aligned}$$

$$\begin{aligned} 9) \quad & 3(2 \text{ cups water} + 1 \text{ cup rice}) \\ & = 6 \text{ cups water} + 3 \text{ cups rice} \end{aligned}$$

$$\begin{aligned} 10) \quad & 5(3 \text{ pencils} + 1 \text{ eraser} + 1 \text{ pen}) \\ & = 15 \text{ pencils} + 5 \text{ erasers} + 5 \text{ pens} \end{aligned}$$

$$\begin{aligned} 11) \quad & 25(2 \text{ eggs} + 3 \text{ pancakes}) \\ & = 50 \text{ eggs} + 75 \text{ pancakes} \end{aligned}$$

$$\begin{aligned} 12) \quad & 2(1 \text{ sq. yd. carpet} + 12 \text{ feet trim}) \\ & = 2 \text{ sq. yd. carpet} + 24 \text{ feet trim} \end{aligned}$$

$$\begin{aligned} 13) \quad & 2(3A + 4B) \\ & = 6A + 8B \end{aligned}$$

$$\begin{aligned} 14) \quad & 5(1R + 2G) \\ & = 5R + 10G \end{aligned}$$

$$\begin{aligned} 15) \quad & 3(2N + 1) \\ & = 6N + 3 \end{aligned}$$

$$\begin{aligned} 16) \quad & 4(5N - 2) \\ & = 20N - 8 \end{aligned}$$

$$\begin{aligned} 17) \quad & \frac{1}{2}(8N - 6) \\ & = 4N - 3 \end{aligned}$$

$$\begin{aligned} 18) \quad & 7(3X + 2) \\ & = 21X + 14 \end{aligned}$$

$$\begin{aligned} 19) \quad & 4(X + 1) \\ & = 4X + 4 \end{aligned}$$

$$\begin{aligned} 20) \quad & 9(x - 4) \\ & = 9x - 36 \end{aligned}$$

$$\begin{aligned} 21) \quad & 1(6x - 2) \\ & = 6x - 2 \end{aligned}$$

$$\begin{aligned} 22) \quad & 2(x + y + 2z) \\ & = 2x + 2y + 4z \end{aligned}$$

$$\begin{aligned} 23) \quad & 3(2x - 3y - 5z) \\ & = 6x - 9y - 15z \end{aligned}$$