

2.3 CA Distributive Property

Name: _____

1. The model shows how Maya planted flowers in her garden.



How many flowers did Maya plant?

- (A) 15
- (B) 18
- (C) 30
- (D) 45

Making Compatible Numbers

Frequently, taking a large number and breaking it down into parts, then using the distributive property will aid computations.

2. $3(58)$

3. $13 \cdot 4$

4. $5 \cdot 429$

5. $15 \cdot \left(4\frac{3}{5}\right)$

6. $7(6.04)$

7. $4(2.98)$

8. $8(119)$

9. If you buy 9 pound of honey crisp apples at \$3.70, how much would it cost?

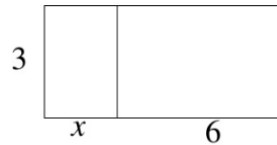
10. A student buys 11 cd's at \$6.10 each. How much does it cost?

11. Evaluate $89 \times 7 + 83 \times 7$ using the distributive property.

12. To represent the distributive property with area, find the two different ways you can write an expression to model area.

(1) The product of the sides.

(2) The sum of areas.



13. Using the Distributive Property, rewrite:

$$3(x+5)$$

14. Rewrite using the Distributive Property.

$$-5x - 25$$

15. Using the Distributive Property, rewrite:

$$-4(2x-3)$$

16. Using the Distributive Property, rewrite:

$$(4y+7)(3)$$

17. Simplify.

$$5(n-8) + 4n$$

18. Simplify.

$$2(g+4) + 5(g-1)$$

19. Simplify.

$$3x - 2(3y - 6x) + 7y$$

20. Simplify.

$$7x + \frac{1}{4}(4x - 16) + 10$$

Rewrite each quotient so it is easy to compute mentally. Then simplify.

21. $\frac{1024}{2}$

22. $\frac{2412}{6}$

23. $\frac{968}{3}$

24. $\frac{249}{5}$

Simplify the expression. Reduce fractions when possible. Leave answers as improper fractions.

25. $\frac{6c+48}{2}$

26. $\frac{9x-12}{-3}$

27. $\frac{-6c+18}{9}$

28. $\frac{-25c+20}{-15}$