

Name: Key

5th Grade Notes 2.7 Distributive Property p. 119

-for the distributive property, you mult. a sum by a number

-break up the bigger number into its place values

Ex: 3×42

$$42 = \underline{40} \text{ (} \underline{4 \text{ tens}} \text{)} + \underline{2} \text{ (} \underline{2 \text{ ones}} \text{)}$$

-then multiply it by 3; Ex: $3 \times 42 = \underline{3 \times (40 + 2)}$

-then multiply each piece by 3: $(3 \times 40) + (3 \times 2)$

-then solve (always do the mult. in parentheses FIRST, then add)

$$\begin{aligned} \text{Ex: } 3 \times 42 &= 3 \times (40 + 2) \\ &= (3 \times 40) + (3 \times 2) \\ &= 120 + 6 \\ &= 126 \end{aligned}$$

$$\begin{aligned} \text{Ex: } 7 \times 26 &= 7 \times (20 + 6) \\ &= (7 \times 20) + (7 \times 6) \\ &= 140 + 42 \\ &= 182 \end{aligned}$$