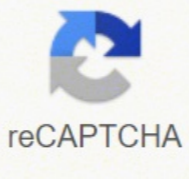




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Name: _____ **Key**

Distributive Property: Make it Simple!

Rewrite each of the following equations using the distributive property. Write the correct answer for each problem. Remember to show your work.

Example: $7 \times 32 = \underline{224}$ $(7 \times 30) + (7 \times 2)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 210 + 14$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 224$

Actual student answers may vary. Examples of correct answers.

A) $6 \times 55 = \underline{330}$ $(6 \times 50) + (6 \times 5)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 300 + 30$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 330$

B) $9 \times 74 = \underline{666}$ $(9 \times 70) + (9 \times 4)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 630 + 36$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 666$

C) $12 \times 140 = \underline{1680}$ $(12 \times 100) + (12 \times 40)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 1200 + 480$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 1680$

D) $8 \times 112 = \underline{896}$ $(8 \times 110) + (8 \times 2)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 880 + 16$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 896$

E) $30 \times 156 = \underline{530}$ $(30 \times 150) + (30 \times 6)$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 450 + 180$
 $\qquad\qquad\qquad$ $\qquad\qquad\qquad 530$

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Solving Multiplication of Decimals with the Area Model: Distributive Property

3.1×0.7

Area Model for 3.1×0.7 : A grid with 3 columns and 1 row, representing 3×0.7 . The grid is divided into 30 small squares. 21 squares are shaded, representing $3 \times 0.7 = 2.1$.

$(3 \times 0.7) + (0.1 \times 0.7)$
 $2.1 + 0.07 = \underline{2.17}$

Vertical Addition:

$$\begin{array}{r} 2.10 \\ + 0.07 \\ \hline 2.17 \end{array}$$

2.4×3.3

Area Model for 2.4×3.3 : A grid with 2 columns and 4 rows, representing 2×3 . The grid is divided into 24 small squares. 20 squares are shaded, representing $2 \times 3 = 6.00$.

$(2 \times 3) = 6.00$
 $(2 \times 0.3) = 0.60$
 $(0.4 \times 3) = 1.20$
 $(0.4 \times 0.3) = 0.12$

Vertical Addition:

$$\begin{array}{r} 6.00 \\ + 0.60 \\ + 1.20 \\ + 0.12 \\ \hline 7.92 \end{array}$$

Distributive Property (A)

Use the distributive property to simplify each expression.

$-9n(-8n - 7)$

$-2t(-9 + 9t)$

$-3b(6b + 6)$

$-7r(8 + 3r)$

$3m(-2 + 3m)$

$7w(-8 + 3w)$

$2w(-w - 4)$

$6q(-4 + 8q)$

$-8v(-2 - 5v)$

$-8a(7a + 2)$

$5g(g - 1)$

$y(-9 + 6y)$

$6b(8 + 7b)$

$3r(-4r - 8)$

$3d(-5 + 8d)$

$-7r(4 - 6r)$

$-8j(7 - 6j)$

$-3j(9 + 9j)$

$2m(4 - 4m)$

$8c(-5c + 9)$

