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## Understanding Distributive Property

1. Using the distributive property, find the value of each of the expressions.

$$
\begin{aligned}
& 8 \times(\mathrm{n}+3) \quad \text { if } \mathrm{n}=5 \\
& =(8 \times \ldots)+(8 \times 3) \\
& =\ldots+\ldots \\
& =
\end{aligned}
$$

$0.5 \times(50+\mathrm{n}) \quad$ if $\mathrm{n}=10$
$=(0.5 \times 50)+(0.5 \times \ldots)$
$=Z^{+}+$
$=-$
$5 \mathrm{x}(10+\mathrm{n}) \quad$ if $\mathrm{n}=5$
$=(5 \times 10)+(5 \times$ $\qquad$ _
$=$ $\qquad$ $+$ $\qquad$
$=$ $\qquad$
$0.5 \times(70+n) \quad$ if $n=15$
$=(0.5 \times 70)+(0.5 \mathrm{x}$ $\qquad$
$3 \times(\mathrm{n}+5) \quad$ if $\mathrm{n}=0.4$
$=\left(3 \times \_\right)+(3 \times 5)$
$=\square$
$=$

$$
0.2 \times(10+n) \quad \text { if } n=3
$$

$$
=(0.2 \times 10)+(0.2 \times
$$

$\qquad$
$=$ $\qquad$ $+$ $\qquad$
$=$ $\qquad$ $=$

$=$ $\qquad$ $+$ $\qquad$
$=$ $\qquad$ -
2. Check if the equation $5 x(n+13)=105$ is true where $\mathrm{n}=8$ by using distributive property.

## Solution:

3. Using the distributive property, find the sum of the perimeter of the squares below.

4. Using the distributive property, find the total area of the figure below.

5. True or False $\frac{1}{2}(x-y)-4=\frac{1}{2} x-\frac{1}{2} y-4$

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## Answer Key

1. Using the distributive property, find the value of each of the expressions.
$8 \times(n+3) \quad$ if $n=5$
$=(8 \times 5)+(8 \times 3)$
$=40+24$
$=64$
$0.5 \times(50+n) \quad$ if $n=10$
$=(0.5 \times 50)+(0.5 \times 10)$
$=25+5$
$=30$
$5 \times(10+n) \quad$ if $n=5$
$=(5 \times 10)+(5 \times 5)$
$=50+25$
$=75$
$0.5 \mathrm{x}(70+\mathrm{n}) \quad$ if $\mathrm{n}=15$
$=(0.5 \times 70)+(0.5 \times 15)$
$=35+7.5$
$=42.5$
$3 \times(n+5) \quad$ if $n=0.4$
$=(3 \times 0.4)+(3 \times 5)$
$=1.2+15$
$=16.2$
$0.2 \times(10+n) \quad$ if $n=3$
$=(0.2 \times 10)+(0.2 \times 3)$
$=2+0.6$
$=2.6$
2. The equation is true.
3. Total Perimeter $=\mathrm{P} 1+\mathrm{P} 2+\mathrm{P} 3=4 \mathrm{x}(4+3+2)=36 \mathrm{~cm}$
4. 36 sq. cm
5. True
