

19. $4p - 5(p + 6)$

$$\begin{array}{ccc} 4p & -5p & -30 \\ \hline \end{array}$$

$$-1p - 30$$

$$-p - 30 \text{ or } -30 - p$$

*Distribute -5 to both p and 6 . $4p$ comes straight down.

21. **HIKING** On a hike, each hiker carries the items shown. Write an expression in simplest form that represents the weight carried by x hikers. Interpret the expression.



$x = \#$ of hikers

$$x(3.4 + 4.6 + 2.2)$$

$$3.4x + 4.6x + 2.2x$$

$$10.2x$$

Each hiker carries 10.2 pounds

$$\begin{array}{r} 3.4 \\ 4.6 \\ +2.2 \\ \hline 10.2 \end{array}$$

23. **REASONING** Are the expressions $8x^2 + 3(x^2 + y)$ and $7x^2 + 7y + 4x^2 - 4y$ equivalent? Explain your reasoning.

$$8x^2 + 3(x^2 + y)$$

$$8x^2 + 3x^2 + 3y$$

$$11x^2 + 3y$$

$$7x^2 + 7y + 4x^2 - 4y$$

$$11x^2 + 3y$$

Yes! When you combine like terms (simplify), both become $11x^2 + 3y$.

25. **BANNER** Write an expression in simplest form that represents the area of the banner.



Area = length \cdot width

$$3 \cdot (3 + x)$$

$$9 + 3x \text{ feet}$$