You may need to use the <u>Distributive Property</u> to solve an equation that has parentheses. Multiply each term inside the parentheses by the factor that is outside the parentheses. Then combine like terms.

$$2(3+4)$$
$$2 \cdot 7 = 14$$
$$2(3+4)$$
$$6+8=14$$

Jan 13-8:53 AM

Solve 5(y − 2) + 6 = 21

$$5y - 10 + 6 = 21$$
$$5y - 4 = 21$$
$$ +4 \quad +4$$
$$\frac{5y}{5} = \frac{25}{5}$$
$$y = 5$$

Jan 13-8:53 AM

Solve 3(z − 1) + 8 = 14

$$3z - 3 + 8 = 14$$
$$3z + 5 = 14$$
$$ -5 \quad -5$$
$$\frac{3z}{3} = \frac{9}{3}$$
$$z = 3$$

Jan 10-8:50 AM

Solve 3(x − 3) + 4 = 28

$$3x - 9 + 4 = 28$$
$$3x - 5 = 28$$
$$ +5 \quad +5$$
$$\frac{3x}{3} = \frac{33}{3}$$
$$x = 11$$

Jan 13-8:53 AM

4(y + 5) + 3 = 35

$$4(2y + 5) + 3 = 35$$
$$8y + 20 + 3 = 35$$
$$8y + 23 = 35$$
$$ -23 \quad -23$$
$$y = 1\frac{4}{8} = 1.5 \quad \frac{8y}{8} = \frac{12}{8}$$

Feb 8-9:21 AM

$$7 \cdot \frac{2c + 6}{7} = 30 \cdot 7$$

$$\frac{7}{7} = 1$$
$$2c + 6 = 210$$
$$ -6 \quad -6$$
$$c = 102 \quad \frac{2c}{2} = \frac{204}{2}$$

Jan 10-8:51 AM

$$6 \cdot \frac{3c - 9}{6} = 24 \cdot 6$$

$$3c - 9 = 144$$
$$\underline{+9 \qquad +9}$$
$$\boxed{C = 51} \quad \frac{3c}{3} = \frac{153}{3}$$

Jan 13-9:31 AM

Solve

$$2 \cdot \frac{2h - 4}{2} = 24 \cdot 2$$

$$2h - 4 = 48$$
$$\underline{+4 \qquad +4}$$
$$\frac{2h}{2} = \frac{52}{2}$$
$$\boxed{h = 26}$$

Feb 8-9:18 AM