

p. 355 Application Question Nov. 17

44

$$y = 3y - 12$$

$$\frac{-2y}{-2} = \frac{-12}{-2}$$

$$y = 6$$

Marlene scored 6 goals

+ Lia scored 18 goals. test: D & 1/2

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Solving Equations with Brackets

2.

$$2(x - 3) = 2$$

$+6 \quad +6$

$$2x - 6 = 2 + 6$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$x = 4$$

11. Solve and check

$$-24 = 4(x+3) - 12$$

$$-24 = 4x + 12$$

$$\frac{-36}{4} = \frac{4x}{4}$$

$$-9 = x$$

$$x = -9$$

L.S.	R.S.
-24	$4(x+3)$
	$4(-9+3)$
	$4(-6)$
	-24

✓

17. $5(2x-3) = 2(x-2) + 5$

$$10x - 15 = 2x - 4 + 5$$

$$10x - 15 = 2x + 1$$

$$8x - 15 = 1 + 15$$

$$\frac{8x}{8} = \frac{16}{8}$$

$$x = 2$$

24. $4(m-2) + (m+3) = m-1$

$$4m - 8 - m - 3 = m - 1$$

$$3m - 11 = m - 1$$

$$2m - 11 = -1 + 11$$

$$\frac{2m}{2} = \frac{10}{2}$$

$$m = 5$$

L.S

$$4(m-2)-(m+3)$$

$$4(5-2)-(5+3)$$

$$4(3)-(8)$$

$$12-8$$

$$4$$

R.S

$$m-1$$

$$5-1$$

$$4$$

$$32) 5(x+1)=20$$

$$\begin{array}{r} -5 \\ 5x + 5 = 20 \end{array} \quad \begin{array}{r} -5 \end{array}$$

$$\begin{array}{r} 5 \\ 5x = 15 \end{array}$$

$$x = 3$$

$$\begin{array}{r} b) \quad x + 1 \\ = 3 + 1 \\ = 4 \end{array}$$

$\therefore$ width is 4

HW p 355 # 43, 46

p. 358 # All

$$27) 3(2x+1) - (x-2) = 2(x+4)$$

$$6x+3 - x+2 = 2x+8$$

$$\begin{array}{r} -2x \\ 5x+5 = 2x+8 \end{array}$$

$$\begin{array}{r} -5 \\ 3x+5 = 8 \end{array}$$

$$\frac{3x}{3} = \frac{3}{3}$$

$$x = 1$$