

YVONNE MONIQUE AVIVA  
KISS MY MATH PART THREE

DTM pg 170 §171

2)  $4(x+3)$

Divide by four then subtract by 3

3)  $4y + 3$

Subtract three and then divide by four

4)  $\frac{z+3}{4}$

Multiply by four then subtract three

5)  $5\left(\frac{w}{2} - 1\right)$

Divide by five, add one & multiply by two

6)  $\frac{6n-5}{7}$

multiply by 7, add five and divide by six.

DTM pg 179

2)  $\frac{2(x-6)}{2} = -18$

~~NUMERATOR~~

2)  $\frac{2(x-6)}{2} = -18$

2)  $\left(\frac{2x-6}{2}\right) = \frac{-18}{2}$

$x-6+6 = -9+6$

$x = -3$

3)  $\frac{x-4}{2} = 1$

$2\left(\frac{x-4}{2}\right) = 1 \times 2$

$x-4+4 = 2+4$

$x = 6$

4)  $3(x-5) - 2 = 7$

$3(x-5) - 2 + 2 = 7 + 2$

$\frac{3(x-5)}{3} = \frac{9}{3}$

$x-5 = 3$

$x-5+5 = 3+5$

$x = 8$

5)  $\frac{(x+1)}{3} + 2 = 3$

$\frac{x+1}{3} + 2 - 2 = 3 - 2$

$\frac{x+1}{3} = 1$

$3\left(\frac{x+1}{3}\right) = 1 \times 3$

$x+1 = 3$

$x+1-1 = 3-1$

$x = 2$

DtM pg 198

$$2) 6x + 10 = 4(x + 3)$$

$$6x + 10 = 4x + 12$$

$$6x - 4x + 10 = 4x - 4x + 12$$

$$2x + 10 = 12$$

$$2x + 10 - 10 = 12 - 10$$

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

$$x = 1$$

$$3) -2x - 5 = -x + 1$$

$$-2x + (-5) = -1x + 1$$

$$-2x + 1x + (-5) = -1x + 1x + 1$$

$$-1x + (-5) = 1$$

$$-1x + (-5) + 5 = 1 + 5$$

$$\frac{-1x}{-1} = \frac{6}{-1}$$

$$x = -6$$

$$4) 3x + 2 - x = -6 + 2x + 8$$

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

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

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

$$2 = 2$$

This equation is true for all values of  $x$

$$5) \frac{2x}{3} + 1 = x$$

$$3\left(\frac{2x}{3} + 1\right) = x \cdot 3$$

$$2x + 3 = 3x$$

$$2x - 2x + 3 = 3x - 2x$$

$$3 = x$$

$$6) x + 2xy + 1 - xy = 2x - 7 + xy$$

$$x + 2xy + 1 + (-1xy) = 2x + (-7) + 1xy$$

$$x + 1xy + 1 = 2x + (-7) + 1xy$$

$$x + 1xy - 1xy + 1 = 2x + (-7)$$

$$x + 1 = 2x + (-7)$$

$$x - x + 1 = 2x - x + (-7)$$

$$1 + 1 = x + (-7) + 7$$

$$8 = x$$

DTM pg 193 & 194

$$\begin{aligned} 2) \quad 2s - 5 &= 195 \\ 2s + (-5) + 5 &= 195 + 5 \\ \frac{2s}{2} &= \frac{200}{2} \end{aligned}$$

$$s = 100$$

$$\begin{aligned} 3) \quad \frac{s+5}{6} &= 7 \\ \frac{6}{1} \cdot \frac{s+5}{6} &= 7 \cdot 6 \end{aligned}$$

$$s+5 = 42$$

$$s+(-5)-5 = 42-5$$

$$s = 47$$

$$\begin{aligned} 4) \quad \frac{s-10}{2} &= 8 \\ \frac{2}{1} \cdot \frac{s-10}{2} &= 8 \cdot 2 \end{aligned}$$

$$s-10 = 16$$

$$s+(-10)+10 = 16+10$$

$$s = 26$$

$$\begin{aligned} 5) \quad 2y + 9 &= 51 \\ 2y + 9 - 9 &= 51 - 9 \\ 2 \div 2y &= 42 \div 2 \\ y &= 21 \end{aligned}$$

$$\begin{aligned} 6) \quad \frac{1}{5}m - 2 &= 0 \\ \frac{1}{5}m - 2 + 2 &= 0 + 2 \\ \frac{5}{1} \cdot \frac{1}{5}m &= 2 \times 5 \\ m &= 10 \end{aligned}$$

DtM- pg 204

$$2) p + (55+p) = 95$$

$$2p + 55 = 95$$

$$\therefore -55 = -55$$

$$\frac{2p}{2} = \frac{40}{2}$$

$$p = 20$$

The purse costs \$20

$$3) 4h + 10 = 4.5h$$

$$4(15) + 10 = \$70$$

$$4.5h = 4.5(15) = 67.5$$

a) Mom's deal is better @ \$70

$$b) 4h + 10 = 4.5h$$

$$4h - 4h + 10 = 4.5h - 4h$$

$$\frac{10}{.5} = \frac{.5h}{.5}$$

$$20 = h$$

20 hours

$$4) (3 + D) + D + (D - 4) = 41$$

$$3 + D + D + D + (-4) = 41$$

$$3 + 3D + (-4) = 41$$

$$-1 + 3D = 41$$

$$+1 \quad +1$$

$$3 \div 3D = 42 \div 3$$

$$D = 14$$

Duncan is 14 yrs old

Hunter is 17 yrs old

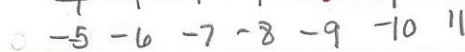
Leslie is 10 yrs old

DTM pg 214

$$2. 67W$$



$$3) -9 \geq x$$



$$4) 2 < n < 3$$



D+m pg 223 & 224

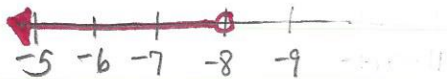
$$2) \begin{array}{l} 8+x < 16 \\ -8 \quad -8 \\ \hline x < 8 \end{array}$$



$$3) \begin{array}{l} 8-x < 16 \\ +8 \quad -8 \\ \hline 1-x < 8 \end{array}$$

$$1-x < 8$$

$$x > -8$$

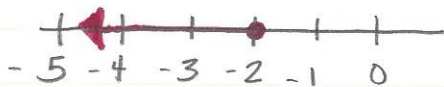


$$4) -3x-1 \geq 5$$

$$-3x-1+1 \geq 5+1$$

$$3 \div -3x \geq 6 \div (-3)$$

$$x \leq -2$$



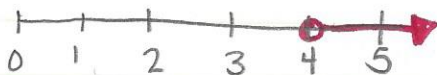
$$5) 2x-1 > x+3$$

$$-x \quad -x$$

$$x-1 > 3$$

$$+1 \quad +1$$

$$x > 4$$



$$x^2 + 2x + 1 > 0$$

$$(x+1)^2 > 0$$



$$x^2 - 4 > 0$$

$$(x-2)(x+2) > 0$$

$$x < -2 \text{ or } x > 2$$

$$x < -2$$



$$x^2 - 5x + 4 > 0$$

$$(x-4)(x-1) > 0$$

$$x < 1 \text{ or } x > 4$$

$$x < 1$$



$$x^2 + x - 2 > 0$$

$$(x+2)(x-1) > 0$$

$$x < -2 \text{ or } x > 1$$

$$x < -2$$

