

Quiz on Equations

Wednesday

March 16



A. $6(1 + 2n) = -18$

B. $-(3r-6) - 7 = -4$

$$6 + 12n = -18$$

$$\boxed{6-6} + 12n = -18-6$$

$$\frac{12n}{12} = \frac{-24}{12}$$

$$n = -2$$

Group like terms

$$-3r + 6 - 7 = -4$$

$$-3r - 1 = -4$$

$$-3r \boxed{-1+1} = -4+1$$

$$\frac{-3r}{-3} = \frac{-3}{-3}$$

$$r = 1$$

LS	RS
$6 + 12n$	-18
$6 + 12(-2)$	
$6 - 24$	
-18	

YAWN!

$$C. \quad 3(x + 1) - 2x = 1$$

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

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

$$x + 3 = 1$$

$$x + 3 - 3 = 1 - 3$$

$$x = -2$$





D. $-3x + 6 = 3(x + 7) - x$

$$-3x + 6 = 3x + 21 - x$$

$$-3x + 6 = 3x - x + 21$$

$$-3x + 6 = 2x + 21$$

$$-3x - 2x + 6 = \boxed{2x - 2x} + 21$$

$$-5x + 6 = 21$$

$$-5x + 6 - 6 = 21 - 6$$

$$\frac{-5x}{-5} = \frac{15}{-5}$$

$$x = -3$$

E. $-4 + (1 + 7n) = -2n$

$$-4 + 1 + 7n = -2n$$

$$-3 + 7n = -2n$$

$$-3 + 7n + 2n = \boxed{-2n + 2n}$$

$$-3 + 9n = 0$$

$$-3 + 3 + 9n = 0 + 3$$

$$\frac{9n}{9} = \frac{3}{9}$$

$$n = \frac{3}{9} = \frac{1}{3}$$

$$-3x + 6 = 2x + 21$$

$$-3x + 3x + 6 = 2x + 3x + 21$$

$$6 = 5x + 21$$



March
Break is
over...wake
up!!!

G. $36 + 3x = 3(6x-8)$

F. $6v + 7(v + 6) = 3v - 8$

$$6v + 7v + 42 = 3v - 8$$

$$13v + 42 = 3v - 8$$

$$13v - 3v + 42 = \boxed{3v - 3v} - 8$$

$$10v + 42 = -8$$

$$10v + 42 - 42 = -8 - 42$$

$$\frac{10v}{10} = \frac{-50}{10}$$

$$v = -5$$

Must wake up...



$$G. \quad -1\frac{1}{2}p - \frac{7}{4} = -5\frac{1}{8}$$
$$(8) \quad -\frac{3p}{2} - \frac{7}{4} = -\frac{41}{8}$$

$$\frac{-24p}{2} - \frac{56}{4} = \frac{-328}{8}$$

$$-12p - 14 = -41$$

$$-12p - 14 + 14 = -41 + 14$$

$$\frac{-12p}{-12} = \frac{-27}{-12}$$
$$p = \frac{27}{12}$$

$$H) \quad \frac{1}{2}x + \frac{3}{2} = 3\frac{3}{4}$$

$$(4) \quad \frac{3}{2}x + \frac{3}{2} = \frac{15}{4}$$

$$\frac{12x}{2} + \frac{12}{2} = \frac{60}{4}$$

$$6x + 6 = 15$$

$$6x + 6 - 6 = 15 - 6$$

$$\frac{6x}{6} = \frac{9}{6}$$

$$x = \frac{9}{6} \rightarrow \frac{3}{2} = 1\frac{1}{2}$$

$$\overset{(12)}{\underline{2}} (x-4) = \overset{(12)}{\underline{3}} (-2x+5)$$
$$\underline{3} \qquad \underline{4}$$

$$\frac{24}{3} (x-4) = \frac{36}{4} (-2x+5)$$

$$8(x-4) = 9(-2x+5)$$

$$8x - 32 = -18x + 45$$

$$8x + 18x - 32 = \boxed{-18x + 18x} + 45$$

$$\underline{26x - 32 = 45}$$

$$26x - 32 + 32 = 45 + 32$$

$$\frac{26x}{26} = \frac{77}{26}$$

$$x = \frac{77}{26} = 2\frac{25}{26}$$

$$x = \frac{77}{26} = 2\frac{25}{26}$$

HOMEWORK

WORKSHEET



* Group 2, 4, 5, 6, 7, 8, 12, 14
First when Necessary! 16, 19, 20, 23, 24, 28