p.344 Solving Equations Oct 30

5. $x - 3 = 11$

+3 +3

$x = 14$

+10 +10

9. $3 = y - 10$

$13 = y$

$y = 13$

7. $n - 7 = -8$

+7 +7

$n = -1$

-6 -6

11. $x + 6 = 13$

$x = 7$

15. $x+3=9$ -3 -3

$x = 6$

17. $m-5=-4$ $+5$ $+5$

$m = 1$

Left Side	Right Side
$m-5$	-4
$1-5$	
-4	

✓

20. $r + 7 = -9$ -7 -7

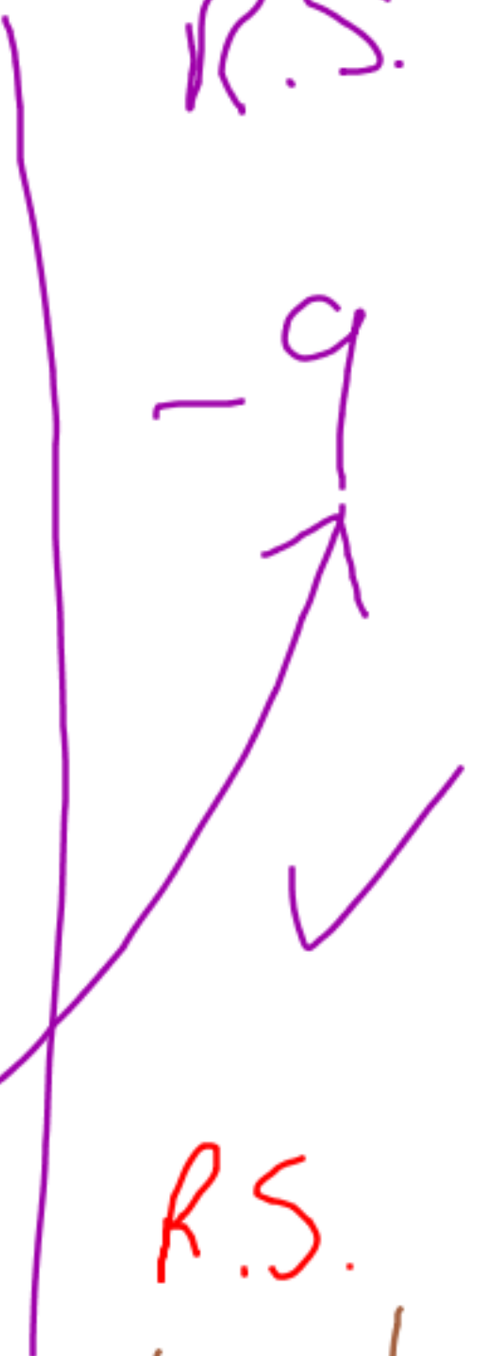
$r = -16$

L.S. $r + 7$

$-16 + 7$

-9

R.S. -9



26. $-11 = t - 1$ $+1$ $+1$

$-10 = t$

$t = -10$

L.S. -11

R.S. $t - 1$

$-10 - 1$

-11

27. $x + 1.5 = 3.5$ -1.5 -1.5

$x = 2$

29. $4.6 = t - 1.4$ $+1.4$ $+1.4$

$6 = t$

$t = 6$

$\therefore$

L.S. $x + 1.5$

$2 + 1.5$

3.5

R.S. 3.5

L.S. 4.6

R.S. $t - 1.4$

$6 - 1.4$

4.6

43. Three more than a number x is eight

a) $x - 3 = 8$

b) $x + 8 = 3$

c) $x + 3 = 8$

d) $x - 8 = 3$

46. $y - \frac{1}{7} + \frac{1}{7} = \frac{5}{7} + \frac{1}{7}$

$y = \frac{6}{7}$

47. $x + \frac{1}{2}^{-\frac{1}{2}} = \frac{3}{4} - \frac{1}{2\sqrt{2}} \times 2$

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

$$x = \frac{1}{4}$$

49. $\frac{7}{12} + \frac{1}{6} \times 2 \; m - \frac{1}{6} + \frac{1}{6}$

$$\frac{7}{12} + \frac{2}{12} = m$$

$\therefore m = \frac{9}{12}$

$m = \frac{3}{4}$ V

52.

$$x - 4\tfrac{1}{2} = 1\tfrac{1}{3}$$

$$+\tfrac{9}{2}$$

$$x - \frac{9}{2} = \frac{4}{3} + \frac{9}{2} \quad \times 3 \quad \times 2$$

$$x = \frac{8}{6} + \frac{27}{6}$$

$$x = \frac{35}{6}$$

p.348 Solving Equations Using Division & Multiplication

15. $\frac{3x}{3} = \frac{15}{3}$

$x = 5$

L.S.

$3x$

$3(5)$

$= 15$

R.S.

15

17. $\frac{-8x}{-8} = \frac{16}{-8}$

$x = -2$

L.S.

$-8x$

$-8(-2)$

16

R.S

16

21. $\frac{2x}{2} = \frac{24}{2}$

$x = 12$

LS	RS
$2x$	24
$2(12)$	
24	✓

24. $\frac{2}{1}\left(\frac{x}{2} = \frac{2}{1}\right)\frac{2}{1}$

$\frac{2x}{2} = \frac{4}{1}$

$x = 4$

27. $\frac{3}{1}\left(\frac{-4}{1} = \frac{p}{3}\right)\frac{3}{1}$

$\frac{-12}{1} = \frac{3p}{3}$

$-12 = p$

31. $-\frac{2}{1}^{\times 12} = \frac{t}{12}^{\times 12}$

$-24 = t$

Homework: pg. 344, 345 all

pg. 348, 349 all