

HW 20

p103

9. take a # and add 4.

11. take a # and divide by 5

13. take a # sub 4 & then divide by 5

15. take a # add 2, then multiply by -3

$$19. x + (x+1) = 2x+1$$

$$20. x(x+1) = x^2 + x$$

$$21. 2n-1 + 2n+1 = 4n$$

$$37. x + x + 1 = 525$$

$$2x + 1 = 525$$

$$2x = 524$$

$$x = 262$$

$$\boxed{262 \text{ \& } 263}$$

$$38. x + x + 1 + x + 2 = 804$$

$$3x + 3 = 804$$

$$3x = 801$$

$$x = 267$$

$$\boxed{267, 268, 269}$$

$$43. \frac{x}{45} = \frac{30}{100}$$

$$100x = 1350$$

$$\boxed{x = 13.5}$$

$$44. \frac{x}{360} = \frac{175}{100}$$

$$100x = 63000$$

$$\boxed{x = 630}$$

$$45. \frac{432}{1000} = \frac{x}{100}$$

$$1000x = 43200$$

$$x = 27 \rightarrow \boxed{27\%}$$

$$46. \frac{459}{300} = \frac{x}{100}$$

$$300x = 45900$$

$$x = 153 \rightarrow \boxed{153\%}$$

$$47. \frac{12}{x} = \frac{1/2}{100}$$

$$1200 = \frac{1}{2}x$$

$$\boxed{2400 = x}$$

$$48. \frac{70}{x} = \frac{40}{100}$$

$$40x = 7000$$
$$\boxed{x = 175}$$

$$49. x + 0.85x = 1125$$
$$1.85x = 1125$$
$$x = 608.11$$

$$\boxed{\$608.11 \text{ \& } \$514.89}$$

$$50. 0.835x = 1210.75$$
$$\boxed{x = \$1450}$$

$$51. \frac{32}{100} = \frac{15125.50}{x}$$

$$15125.50 = 32x$$
$$\boxed{\$47.267.19 = x}$$

$$52. \frac{14}{100} = \frac{500}{x}$$

$$50000 = 14x$$
$$\boxed{\$3125 = x}$$