

HW2.

#1.

a. ~~3728954106~~

b. ~~3728954106~~

#5. a. $b + 1111 = 3000$

$$b = 3000 - 1111$$

$$b = 1889$$

b. $456 + c = 1362$

$$c = 1362 - 456$$

$$c = 906$$

c. $p + 222 = 152$

typo! I meant

$$p - 222 = 152$$

$$p = 152 + 222 = 374$$

d. $1765 - n = 753$

$$n = 1765 - 753$$

$$n = 1012$$

e. $a - 56 = 135$

$$a = 135 + 56$$

$$a = 191$$

f. $l - 175 = 1889$

$$l = 1889 + 175$$

$$2064$$

$$g. \quad 2050 - f = 12$$
$$f = 2050 - 12$$
$$f = 38$$

$$h. \quad 345 + m = 1214$$
$$m = 1214 - 345$$
$$m = 869$$

#6

$$a. \quad 234 + (34 - 12) = 234 + 22 = 256$$
$$234 + 34 - 12 = 256$$

$$b. \quad 432 - (35 + 230) = 432 - 265 = 167$$
$$432 - 35 - 230 = 167$$

$$c. \quad 527 - (78 - 23) = 527 - 55 = 472$$
$$527 - 78 + 23 = 472$$

$$\#7. \quad a. \quad 72 + 59 + 97 + 28 + 41 = 72 + 28 + 59 + 41 + 97 = 100 + 100 + 97 = 297$$

$$b. \quad 32 + 34 + 36 + 38 = 32 + 38 + 34 + 36 = 70 + 70 = 140$$

$$c. \quad 5 \cdot 19 \cdot 5 \cdot 3 \cdot 2 \cdot 2 = 5 \cdot 2 \cdot 5 \cdot 2 \cdot 19 \cdot 3 = 10 \cdot 10 \cdot 19 \cdot 3 = 100 \cdot 57 = 5700$$

$$d. 715 - 99 - 101 = 715 - (99 + 101) = 715 - 200 = 515$$

$$e. (629 + 56) - 629 = 629 + 56 - 629 = 56$$

$$f. 232 - (95 + 132) = 232 - 95 - 132 = 232 - 132 - 95 = 100 - 95 = 5$$

#10

$$a. 23 \cdot 15 + 15 \cdot 77 = 15 \cdot (23 + 77) = 15 \cdot 100 = 1500$$

$$b. 79 \cdot 21 - 69 \cdot 21 = 21 \cdot (79 - 69) = 21 \cdot 10 = 210$$

$$c. 340 \cdot 7 + 16 \cdot 70 = 340 \cdot 7 + 16 \cdot 7 \cdot 10 = 340 \cdot 7 + 160 \cdot 7 = 7 \cdot (340 + 160) = 7 \cdot 500 = 3500$$

$$d. 250 \cdot 61 - 25 \cdot 390 = 25 \cdot 10 \cdot 61 + 25 \cdot 390 = 25 \cdot (610 + 390) = 25 \cdot 1000 = 25000$$

$$e. 67 \cdot 58 + 33 \cdot 58 = 58 \cdot (67 + 33) = 58 \cdot 100 = 5800$$

$$f. 55 \cdot 682 - 45 \cdot 682 = 682(55 - 45) = 682 \cdot 10 = 6820$$

$$g. 5 \cdot 4 + 5 \cdot 44 + 5 \cdot 444 + 5 \cdot 4444 = 5 \cdot 4(1 + 11 + 111 + 1111) = 20 \cdot 1234 = 10 \cdot 2 \cdot 1234 = 10 \cdot 2468 = 24680$$

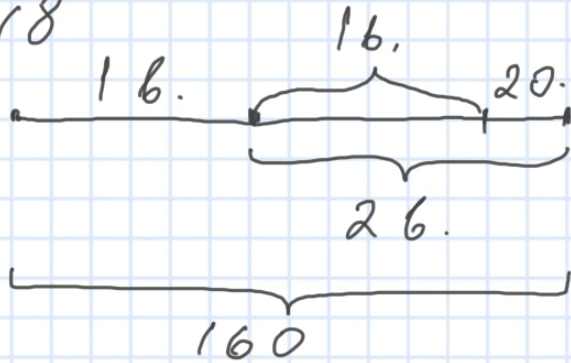
$$\begin{aligned}
 n. \quad & \underline{26 \cdot 25 - 25 \cdot 24 + 24 \cdot 23 - 23 \cdot 22 + 22 \cdot 21 - 21 \cdot 20 + 20 \cdot 19 - 19 \cdot 18 + 18 \cdot 17 - 17 \cdot 16 + 16 \cdot 15 - 15 \cdot 14} = \\
 & = 25 \cdot (26 - 24) + 23 \cdot (24 - 22) + 21 \cdot (22 - 20) + 19 \cdot (20 - 18) + 17 \cdot (18 - 16) + \\
 & = 25 \cdot 2 + 23 \cdot 2 + 21 \cdot 2 + 19 \cdot 2 + 17 \cdot 2 + 15 \cdot 2 = \left. \begin{array}{l} \\ \\ \\ \\ \\ \end{array} \right\} + 15(16 - 14) = \\
 & = 2(25 + 23 + 21 + 19 + 17 + 15) = 6 \cdot 40 = \\
 & \qquad \qquad \qquad = 240.
 \end{aligned}$$

$$\begin{array}{r}
 25 + 23 + 21 + 19 + 17 + 15 \\
 + 15 + 17 + 19 + 21 + 23 + 25 \\
 \hline
 40 + 40 + 40 + 40 + 40 + 40
 \end{array}$$

$$\begin{array}{r}
 \text{\# 14.} \quad \begin{array}{r} \overset{1}{4}95 \\ + 3\underline{54} \\ \hline 84\underline{9} \end{array} \quad \begin{array}{r} \overset{2}{8}20 \\ - 4\underline{57} \\ \hline 36\underline{3} \end{array}
 \end{array}$$

- # 14. 1. $126 + 84 = 210$ pages.
 2. $210 : 5 = 42$ pages per hour.
 3. $126 : 42 = 3$ hour $84 : 42 = 2$ hour.

#18



1. $160 - 20 = 140.$

2. $140 : 2 = 70.$ in the first box

3. $70 + 20 = 90$ in the second box