58.) s = salary
c = commission
b = bonus

a.) $s + 12c + 4b$

b.) $\$52{,}000 + 12(1225.00) + 4(1150.00)$

$\$71{,}300.00$

38. p = preferred
b = blue
g = general

a.) 45b
45 blue tickets
45(80)
$3600.00

b. 15p + 35g

1-3 Properties of Numbers

$4k + 8k = 12k$

Reflexive - reflect $5 = 5$

$4 + 7 = 4 + 7$

Symmetric - $8 = 2 + 6$ then $2 + 6 = 8$

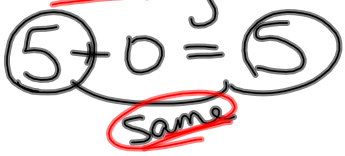
Transitive $6 + 9 = 3 + 12$

$15 = 15$

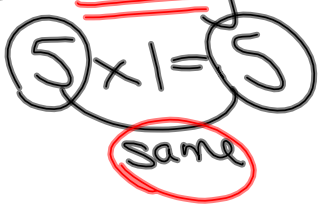
$6 + 9 = 15$

substitution (replace) $n = 11$ then $4n = 4(11)$

additive identity — adding zero



multiplicative identity - multiply by 1



mult. prop of zero

if you multiply by zero you get zero!

$6 \cdot 0 = 0$

adding inverses

$8 + (-8) = 0$

positive negative opposites

multiplicative inverses

$\frac{5}{1} \cdot \frac{1}{5} = 1$ multiplying opposites

Commute

$2+3=3+2$

order does not matter

Associative

parenthesis

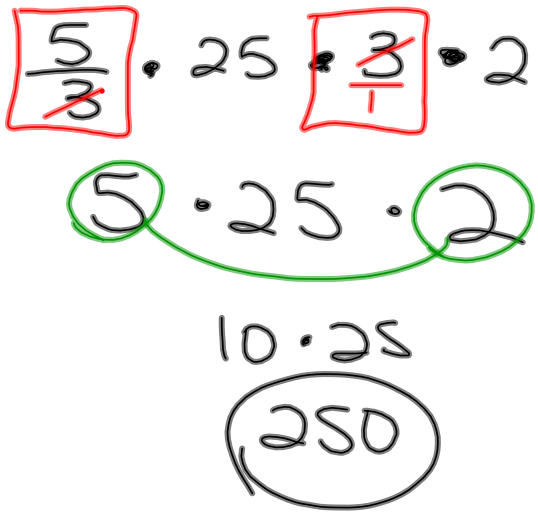
$(3+5)+7=3+(5+7)$

3A $2.9 \cdot 4 \cdot 10$

$2.9 \times 10 = 29$

29×4

116


5/3 · 25 · 3/1 · 2
5 · 25 · 2
10 · 25
250

10.) $7+(9-3^2)$ substitution

$7+(9-9)$ additive inverse

$7+0$ substitution

7 additive identity

12.) $\left[3 \div (2 \cdot 1)\right] \frac{2}{3}$

$\left[\frac{3}{2} \cdot \frac{2}{3}\right]$ mult. identity

1 mult. inverse