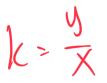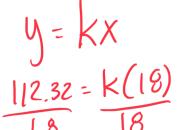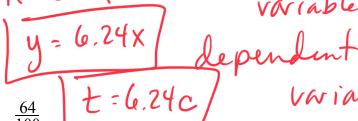6.) (5 pts each, 10 pts total) Use your knowledge of proportions to answer each of the following:

$k = \dfrac{y}{x}$

a) A phone store earned $112.32 after they sold 18 phone cases. Write an equation that can be used to express the relationship between the total money earned (t) and the number of cases (c) sold.

y ← (over 112.32) x ← (over 18 cases)

$y = kx$

$k = 6.24$

independent → x "
variable

$112.32 = k(18)$

$\dfrac{112.32}{18} = \dfrac{k(18)}{18}$

$y = 6.24x$

dependent → y "
variable

b) $\dfrac{}{25} = \dfrac{64}{100}$

$t = 6.24c$

7.) (2.5 pts each, 10 pts total) Use you knowledge of conversions to answer each of the following:

a) 18 centimeters = _____ m

b) 306 millimeters = _____ cm

c) 9 kilograms = _____ g

d) 834 milliliters = _____ L

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