

1.2 Day 2: Applications ☺

Ex 1: Joe earns \$200 a month, & an additional \$12 per album sold. Joe earned \$444 in February, how many albums did he sell that month?

$$\begin{array}{l} \text{Total} \\ \text{Feb \$} \end{array} = 200 + 12X$$

↙ # of
albums

let $X = \# \text{ of albums sold}$

$$\begin{array}{r} 444 = 200 + 12X \\ - 200 \quad - 200 \end{array}$$

$$\frac{444}{12} = \frac{12X}{12}$$

$$X = 37$$

He sold 37 albums in february

Ex 2: Four friends use an online coupon to get discounts on tickets. They spent \$312 for the four tickets. What was the price of one ticket?

Trying to find!

	Quantity	Price
Tickets	4	X
Discount	4	\$15.00
Total		\$312

Given info

Step 1: Write eqt. for the scenario

*remember to define variables!

let x = original ticket price

$$\# \text{ of tickets } (\overset{\text{orig. price}}{x} - \text{discount}) = \text{total } \$$$

$$4(x - 15.00) = 312$$

Step 2: Solve for x !

$$4(x - 15) = 312$$

$$4x - 60 = 312$$

$$4x = 372$$

$$x = 93$$

one ticket
costs \$93

yt] 6 friends go to a concert. & receive
a \$20 discount on each ticket. They
spent a total of \$420. How much
is one ticket?

$$6(X - 20) = 420$$

$$X = 90$$

one full priced ticket is \$90

ex] pistachio & Almond prob

$$p = (a + 4)$$

$$2p + 3a = 48$$

$$2(a + 4) + 3a = 48$$