math8

Finding Probability using fractions

⊛ To calculate total # of outcomes of independent events multiply all possible outcomes (seperately) together.

Ex. Restaurant (food van)

3 drinks	4 Main	2 sides
coke	HD	fries
sprite	Ham	onion rings
iced tea	g. ch	
	chicken nug	

Total # of combos of meals?

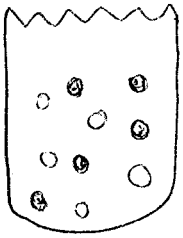
$3 \times 4 \times 2 = 24$ diff combos!

⊛ Probabily of Independent events can be calculated by multiplying their ind. prob. together

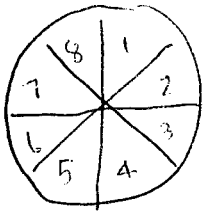
$P(A \text{ then } B) = P(A) \times P(B)$

⊛ as long as A and B don't affect each other.

Ex. Find P(wh., 7) from marbles and spinner



$P(wh) = \frac{5}{10} = \frac{1}{2}$



$P(7) = \frac{1}{8}$

$P(wh, 7) = \frac{1}{2} \times \frac{1}{8}$

$= \frac{1}{16} = 0.0625$

$= 6.25\%$