p.54-55 Probability intro sb.notebook

Guiding question: How do you determine probability of an event?

P. 54-55	Probability	
		<mark>p. 54</mark>
Definition. The]	Theoretical Probability	of an event is the ratio of the number of
ways that the eve	nt can occur to the tota	l number of equally likely outcomes in
the sample space		
	D(mant)_numb	er of times the event occurs
r (event)=-		number of trials

Examples. 1)Sandy rolls a dice. The theoretical probability that Sandy rolls an even number: $P(even) = \frac{number of \ ways \ to \ roll \ an \ even \ number}{number \ of \ possible \ outcomes}} = \frac{3}{6} = \frac{1}{2}$ a.)P(odd) = $\frac{1}{6} = \frac{1}{2} = .5 = 50\%$ b.)P(greater than 2) = $\frac{4}{6} = \frac{2}{3} = .6 \approx (67\%)$

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2) If Jorge spins the spinner shown, what is the probability that the arrow lands in:

a.)
$$P(yellow) = \frac{1}{4} = .25 = 25\%$$

b.) $P(blue \text{ or } green) = \frac{2}{4} = \frac{1}{2} = .5 = 50\%$ blue green

3) If Heidi flips a coin, what is the probability that it lands on tails?

$$P(tails) = \frac{1}{2} = .5 = 50\%$$





4) If a standard deck of cards is used, what are the probabilities of the following outcomes? (hearts & diamonds are red - clubs & spades are black)



Assignment-11.2 Worksheet