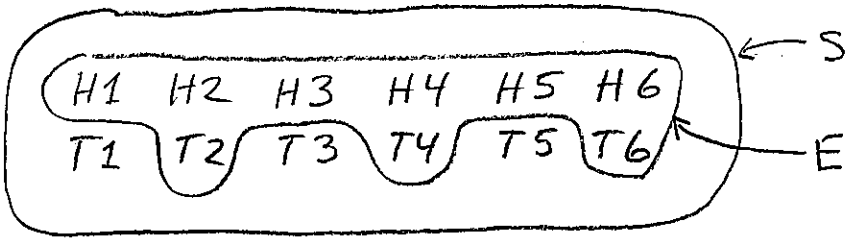
Name: Richard

QUIZ 14 ♠

MATH 211
March 21, 2023

1. Consider the experiment of tossing a coin (H or T), then rolling a dice (possibilities 1, 2, 3, 4, 5, 6).
Let E be the event "*The coin is H or the dice is even.*"
Write out all outcomes in the sample space S. Circle the event E in S. Find the probability of E.



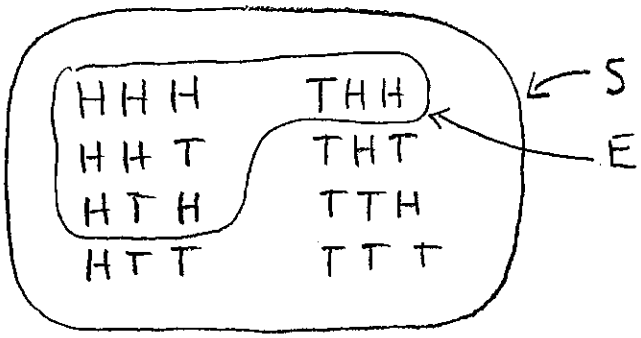
$$P(E) = \frac{|E|}{|S|} = \frac{9}{12} = \frac{3}{4} = \boxed{75\%}$$

Name: Richard

QUIZ 14 ♢

MATH 211
March 21, 2023

1. Consider the experiment of tossing a coin (possibilities H, T) three times in a row.
Let E be the event "*There were more heads than tails.*"
Write out all outcomes in the sample space S. Circle the event E in S. Find the probability of E.



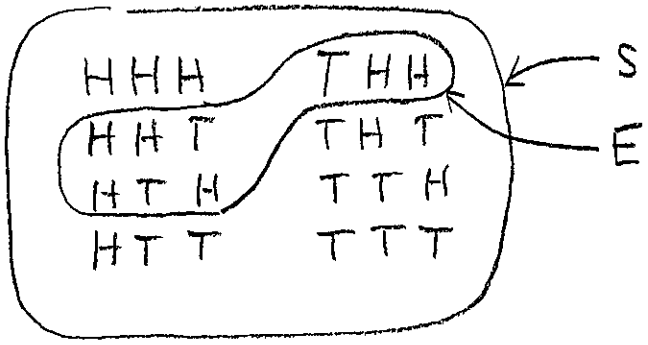
$$P(E) = \frac{|E|}{|S|} = \frac{4}{8} = \frac{1}{2} = \boxed{50\%}$$

Name: Richard

QUIZ 14 ♣

MATH 211
March 21, 2023

1. Consider the experiment of tossing a coin (possibilities H, T) three times in a row.
   Let E be the event "*You got two heads and one tail.*"
   Write out all outcomes in the sample space S. Circle the event E in S. Find the probability of E.



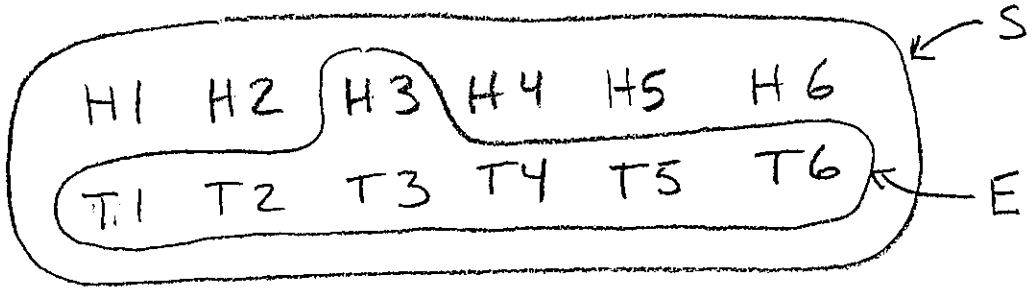
$$P(E) = \frac{|E|}{|S|} = \frac{3}{8} = \boxed{37.5\%}$$

Name: Richard

QUIZ 14 ♡

MATH 211
March 21, 2023

1. Consider the experiment of tossing a coin (H or T), then rolling a dice (possibilities 1, 2 3, 4, 5, 6).
   Let E be the event "*The coin is T or the dice is 3.*"
   Write out all outcomes in the sample space S. Circle the event E in S. Find the probability of E.



$$P(E) = \frac{|E|}{|S|} = \frac{7}{12} = \boxed{58.\overline{3}\%}$$