

Probability Worksheet 1

1. What are the formulas used to find:

Probability of a SINGLE outcome

Probability of MULTIPLE outcomes

2. Solve the following. SHOW ALL STEPS.

You have one quarter, find (as fractions)

- a. $P(\text{heads})$
- b. $P(\text{tails})$
- c. $P(\text{h,h})$

You have one six-sided die, find (as fractions)

- a. $P(3)$
- b. $P(1,2)$
- c. $P(\text{even,odd})$
- d. $P(3,2)$
- e. $P(2,7)$
- f. $P(\text{even, even})$
- g. $P(2,0)$

You have one four-sided die and one six-sided die. What is the $P(4,5)$?

You have one coin and one six-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(H,4)$ as a fraction.

c. Find $P(T,\text{even})$ as a fraction.

You have one three sided spinner and one eight-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(3,5)$ as a fraction.

c. Find $P(\text{odd},2)$ as a percent.

Can the probability be greater than 1? Why or why not?

Probability Worksheet 1

1. Complete the following:

What is the formula used to find the probability of a SINGLE outcome:

What is the difference between $P(2,3)$ and $P(2 \text{ then } 3)$ if we are rolling a 6 sided die?

2. Solve the following. SHOW ALL STEPS.

You have one quarter, find

- a. $P(\text{heads})$
- b. $P(t,h)$
- c. $P(h \text{ then } h)$

You have one six-sided die, find:

- a. $P(3)$
- b. $P(1,2)$
- c. $P(\text{even, odd})$
- d. $P(3 \text{ then } 2)$
- e. $P(2,7)$
- f. $P(\text{even then even})$

You have one four-sided die and one six-sided die. What is the $P(4 \text{ then } 5)$?

You have one coin and one six-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(H,4)$.

c. Find $P(T \text{ then even})$.

You have one three sided spinner and one eight-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(3 \text{ then } 5)$.

c. Find $P(\text{odd},2)$.

Can the probability be greater than 1? Can it be negative? Why or why not?

Probability Worksheet 1

1. Complete the following:

What is the formula used to find the probability of a SINGLE outcome:

What is the difference between $P(2,3)$ and $P(2 \text{ then } 3)$ if we are rolling a 6 sided die?

2. Solve the following. SHOW ALL STEPS.

You have one quarter, find

- a. $P(h)$
- b. $P(t,h)$
- c. $P(h \text{ then } h)$

You have one six-sided die, find:

- a. $P(3)$
- b. $P(1,2)$
- c. $P(\text{even,odd})$
- d. $P(3 \text{ then } 2)$
- e. $P(2 \text{ then } 7)$
- f. $P(\text{even then even})$

You have one four-sided die and one six-sided die. What is the $P(4 \text{ then } 5)$?

You have one coin and one six-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(\text{H then } 4)$.

c. Find $P(\text{T then even})$.

You have one three sided spinner and one eight-sided die.

a. Make a tree diagram showing all possible options

b. Find $P(3 \text{ then } 5)$.

c. Find $P(\text{odd then } 2)$.

Can the probability be greater than 1? Can it be negative? Why or why not?