



Worksheets

6/11 - Probability of Compound Events

Total questions: 14

Worksheet time: 1hrs 4mins

Instructor name: Amy Amy

Name

Class Date

1. What is the probability of flipping a coin and landing on heads?

- a) $\frac{1}{3}$
c) Never, Tails never fails.

2. There are 4 blue marbles, 6 red marbles, 2 yellow marbles and 1 white marble in a bag. What is the probability of randomly choosing a yellow marble?

- a) 2/11 b) 2/12
c) 2/14 d) 2/13

3. What is the probability of spinning an even number?



- a) $33 \frac{1}{3}\%$
c) $16 \frac{2}{3}\%$

4. What is the probability of spinning green?



- a) $\frac{1}{2}$
c) $\frac{1}{4}$
- b) 0
d) $\frac{3}{4}$

5. A box has 3 limes, 5 grapes, and 2 oranges.

Find: $P(\text{NOT lime})$

- a) 3/10 b) 30%
- c) 7/10 d) Answer Not Here

6. Is the following compound event independent or dependent?

 $P(1 \text{ and } A)$

- a) Dependent

7. Determine if the following events are dependent or independent:

Anna draws a card from a bag, does not replace it and draws a card a second time..

a) Independent

b) Dependent

8. Which compound event is composed of dependent events?

a) Selecting a candy bar from a bag eating the candy bar and selecting again

b) Selecting a candy bar from a bag, deciding you don't want it, replace the candy bar and select again.

9.  A coin is tossed and then the spinner is spun. Determine the probability that you toss heads and spin a red.

a) $1/12$

b) $1/10$

c) 0

d) $1/6$

10. Lisa flipped the same coin 3 times. What is the probability she obtained all tails?

a) $1/2$

b) $1/16$

c) $1/4$

d) $1/8$

11.  A coin is tossed and a six-sided die is rolled. Find the probability, $P(\text{heads and } 7)$.

a) 0

b) $1/2$

c) $1/7$

d) $1/14$

12.  What is the probability of the arrow stopping on "X" on the first spin and "F" on the second spin?

a) $1/12$

b) $1/6$

c) $1/36$

d) $1/3$

13. A jar contains 4 white chips, 5 purple chips, and 1 black chip. Chips are selected randomly one at a time, and are not replaced. Find $P(\text{purple then black})$

a) $1/18$

b) $4/9$

c) $2/5$

d) $3/7$

14. 3 Cokes, 1 Sprite and 1 Dr.Pepper are left in the fridge. What is the probability of selecting a Coke, drinking it, and then selecting a Sprite?

a) $2/5$

b) $3/20$

c) $4/9$

d) $9/20$