

52 cards in a deck)

b.  $\frac{2}{13}$ 

a.  $\frac{1}{16}$ 

## **Probability of Compound Event**

Grade 7 Probability 8 Date:	& Data Worksheet	Name:	
		BABILITY OF COMF ver from the options pr	
1. What is the care a. HH,TT		ce of flipping two coins	s? d. HH,HT,TT,TE
2. How many ou shoes?	tfits are possible wit	th 5 pairs of jeans, 8 t-	-shirts, and 2 pairs of
a. 15	b. 40	c. 80	d. 10
marbles are sea. $\frac{9}{50}$	elected 1 at a time a b. $\frac{1}{50}$	S blue marbles and 1 and not replaced. Find c. $\frac{3}{50}$ es, and 8 white roses in	P(blue and red) d. $\frac{6}{50}$
picked 2 roses	one after the other	without replacing, the and a red rose next?	
a. $\frac{1}{6}$	b. $\frac{5}{6}$	c. $\frac{1}{3}$	d. $\frac{2}{3}$
marbles. A m	arble is chosen at r	blue marbles, 3 yellow andom from the jar am. Find the probabilite being yellow.  c. $\frac{3}{121}$	nd replaced. Then a
121	121	121	121
		s, 3 green marbles an	d 2 orange marbles.
Draws are ma a. $\frac{1}{15}$	de without replacen b. $\frac{2}{15}$	nent. P(orange,green) c. $\frac{3}{31}$	d. $\frac{1}{5}$
		ek of cards, replaces it is happened. (There a	_

c.  $\frac{4}{17}$ 

d.  $\frac{1}{21}$ 



## Probability of Compound Event

## Answers

Hint: Probability formulas are used to calculate the probabilities of events. Finding the probability of an event A happening can be calculated using the formula.

$$P(A) = \frac{Number\ of\ times\ A\ occurs}{Total\ number\ of\ possible\ outcomes}$$

$$P(\mathrm{not}\;A) = 1 - P(A)$$

For mutually exclusive events: P(A or B) = P(A) + P(B)

For independent events:  $P(A \text{ and } B) = P(A) \times P(B)$ 

- 1. D
- 2. C
- 3. B
- 4. A
- 5. D
- 6. A
- 7. A