

## Candy survey for Wednesday's packet:

 Which one do you like best of these 3 ?
## 7L:

7R:


Lesson ठ Skills Practice
Probability of Compound Events
Draw a tree diagram to find the number of outcomes for each situation.

1. Three coins are tossed.


Find the total number of outcomes in each situation.
3. One card is drawn from a standard deck
4. Three six-sided number cubes are rolled.
of cards.

52
5. One coin is flipped three consecutive times.
7. A sweater comesiln 3 sizes and 6 colors.


Find each probability.
9. Draw the ace of spades from a standard deck of cards.
11. Draw the six of cuts from a standard deck of cards.

$$
\frac{1}{52}
$$

13. Roll a 7 or an 8 on an eight-sided die.

$$
\frac{2}{8}=\frac{1}{4}=25 \%
$$

15. Draw a club from a standard deck of cards.

16. A coin is tossed and an eight-sided die is rolled. What is the probability that the coin lands on tails, and the die lands on a 2 ?

17. One coin is flipped and one eight-sided die is rolled.
18. A restaurant offers dinners with a choice each of two salads, six entrees, and five deserts. $2 \times 6 \times 5=60$
19. A coin is tossed twice. What is the probability of getting two tails?

$$
\frac{1}{2} \times \frac{1}{2}=\left(\frac{\pi}{4}\right) 25 \%
$$

12. Roll a 4 or higher on a six-sided number cube.

$$
\frac{3}{6}=\frac{1}{2}=50 \%
$$

14. Roll an even number on an eight-sided die.

$$
\frac{y}{8}=\frac{1}{2}
$$

16. Roll an odd number on a six-sided number cube.

$$
\frac{2}{16}=\frac{1}{2}
$$

18. A coin is tossed and a card is drawn from a standard deck of cards. What is the probability of landing on tails and choosing a red card?

$$
\frac{1}{2} \times \frac{1}{2}=\frac{1}{4}=25 \%
$$

Independent vs Dependent Events:

In probability, two events are independent if the incidence of one event does not affect the probability of the other event. If the incidence of one event does affect the probability of the other event, then the events are dependent
$P$ (King) if I don't replace the card? and I got a king tho first time

$$
\frac{4}{52} \times \frac{3}{51}=\frac{12}{2652}=0.0045=0.45 \%
$$

Marbles in abas.
3 blue, 4 green
I choose a marble and get blue. I don't put it beck. what is P(blie, green)?

$$
\begin{aligned}
\frac{3}{7} \times \frac{4}{6 .} & =\frac{12}{42}=\frac{6}{21} \\
& =29 \%
\end{aligned}
$$





