

UNIT 1 STUDY GUIDE

Use for 1 - 10: There are 10 green, 15 white, 5 purple and 20 blue stickers in the sticker machine.

1. What is the probability of getting a **white** sticker?
 $15/50$ OR 30%
2. What is the probability of getting a **green** sticker?
 $10/50$ OR 20%
3. What is the probability of getting a **purple** sticker?
 $5/50$ OR 10%
4. What is the probability that she will get a white or purple sticker?
 $20/50$ OR 40%
5. What is the probability that she will get a green or purple sticker?
 $15/50$ OR 30%
6. What is the probability that she will get a blue or white sticker?
 $35/50$ OR 70%
7. What is the probability that she will NOT get a white sticker?
 $35/50$ OR 70%
8. What is the probability that she will NOT get a blue sticker?
 $30/50$ OR 60%
9. What is the probability that she will NOT get a green or white sticker?
 $25/50$ OR 50%
10. What is the probability that she will NOT get a blue or purple sticker?
 $25/50$ OR 50%

Use for 11 - 12. Billy was playing a game that required spinning a spinner. On his first ten spins, he landed on four different spaces. He landed on:

Blue one time, Purple four times, Red three times, Green two times

11. Based on this data, what is the probability that Billy will spin blue on his next spin?
 $1/10$ OR 10%
12. Based on this data, what is the probability he will NOT land on *purple* on his next spin?
 $6/10$ OR 60%

13- 16.) Calculate. Simplify your solutions.

$$4\frac{1}{2} + 6\frac{1}{5} = 10\frac{7}{10}$$

$$2\frac{5}{10} + 5\frac{3}{5} = 8\frac{1}{10}$$

$$3\frac{4}{5} + 8\frac{1}{3} = 12\frac{2}{15}$$

$$2\frac{4}{5} + 8\frac{3}{4} = 11\frac{11}{20}$$

17.) Write three different fractions equivalent to $\frac{2}{3}$

$$\frac{4}{6}, \frac{20}{30}, \frac{200}{300}, \frac{16}{24} \text{ ect.}$$

Does each describe theoretical or experimental probability?

18. T The chance of rolling a 2 on a fair die is $\frac{1}{6}$.

19. E I rolled a die 10 times and got an even number 8 times.

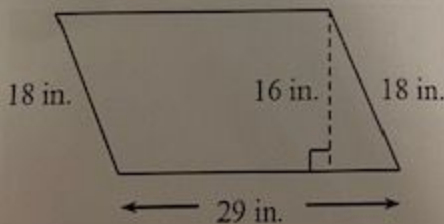
20. E I flipped a coin 18 times and got tails 7 times.

21. T The probability of winning the lottery is $\frac{1}{292,000,000}$.

22. Write .85 as a fraction and a percent.

$$\frac{17}{20} \quad 85\%$$

23. Find the perimeter of the parallelogram below:



$$\begin{aligned} 29 \cdot 2 + 18 \cdot 2 \\ 58 + 36 \\ \boxed{94 \text{ in}} \end{aligned}$$

24. $78.3 - 8.04$

70.26

25. $128.54 - 95.378$

33.162

26. $45.2 (.02)$

0.904

27. $52.1 (1.02)$

53.142

28. $54.6 + 0.2$

273

29. $100.45 + .005$

20090

30.

