

## 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?
2. What is the probability of getting a **green** sticker?
3. What is the probability of getting a **purple** sticker?
4. What is the probability that she will get a white or purple sticker?
5. What is the probability that she will get a green or purple sticker?
6. What is the probability that she will get a blue or white sticker?
7. What is the probability that she will NOT get a white sticker?
8. What is the probability that she will NOT get a blue sticker?
9. What is the probability that she will NOT get a green or white sticker?
10. What is the probability that she will NOT get a blue or purple sticker?

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?
12. Based on this data, what is the probability he will NOT land on *purple* on his next spin?

13- 16.) Calculate. Simplify your solutions.

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

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

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

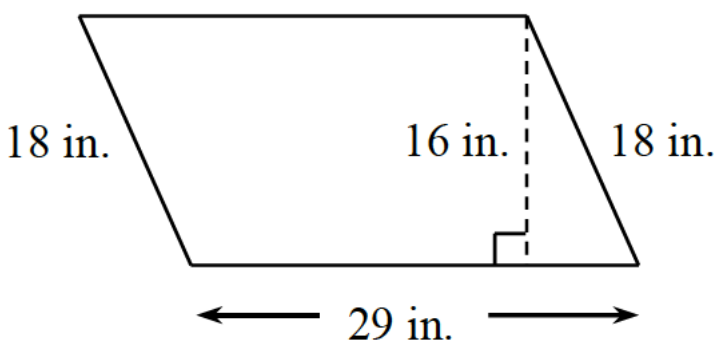
$$2\frac{4}{5} + 8\frac{3}{4} =$$

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

Does each describe theoretical or experimental probability?

18. \_\_\_\_\_ The chance of rolling a 2 on a fair die is  $\frac{1}{6}$ .
19. \_\_\_\_\_ I rolled a die 10 times and got an even number 8 times.
20. \_\_\_\_\_ I flipped a coin 18 times and got tails 7 times.
21. \_\_\_\_\_ The probability of winning the lottery is  $\frac{1}{292,000,000}$ .
22. Write .85 as a fraction and a percent.

23. Find the perimeter of the parallelogram below:



24.  $78.3 - 8.04$

25.  $128.54 - 95.378$

26.  $45.2 (.02)$

27.  $52.1 (1.02)$

28.  $54.6 \div 0.2$

29.  $100.45 \div .005$

