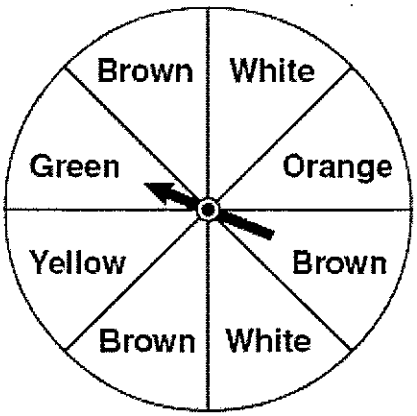
$\frac{\#\text{ of successes}}{\#\text{ of possible outcomes}}$

Name Schlansky
Mr. Schlansky

Date _____
Algebra II

Basic Probability

What is the probability that the spinner



1. lands on white?

$\frac{2}{8}$

2. does not land on white?

$\frac{8}{8} - \frac{2}{8} = \frac{6}{8}$

3. lands on orange?

$\frac{1}{8}$

4. does not land on orange?

$\frac{8}{8} - \frac{1}{8}$ $\frac{7}{8}$

5. lands on brown?

$\frac{3}{8}$

6. does not land on brown?

$\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$

7. lands on yellow?

$\frac{1}{8}$

8. does not land on yellow?

$\frac{8}{8} - \frac{1}{8} = \frac{7}{8}$

9. lands on green?

$\frac{1}{8}$

10. does not land on green?

$\frac{8}{8} - \frac{1}{8} = \frac{7}{8}$

11. lands on white or green?

$\frac{3}{8}$

12. lands on green or yellow?

$\frac{2}{8}$

13. Lands on white or brown?

$\frac{5}{8}$

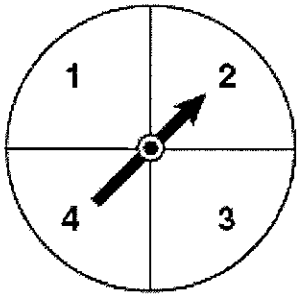
14. Lands on orange or yellow?

$\frac{2}{8}$

15. Lands on green or white?

$\frac{3}{8}$

What is the probability that the spinner:



16. lands on an even number?

$\frac{2}{4}$

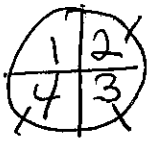
17. lands on a number greater than 1?

$\frac{3}{4}$

18. lands on a 4 or 1?

$\frac{2}{4}$

19. lands on an even number or a 3?



$\frac{3}{4}$

20. Lands on an even number or a 2?

$\frac{2}{4}$

A fair six sided die is rolled. What is the probability that it lands on:

21. a number less than 5

1
2
3
4
5
6

$\frac{4}{6}$

22. A multiple of 3

1
2
3
4
5
6

$\frac{2}{6}$

23. A factor of 8

1
2
3
4
6

$\frac{3}{6}$

24. a number that's even or less than 4

1
2
3
4
5
6

$\frac{5}{6}$

25. An even number and a factor of 10 → must be both

1
2
5
4
6

$\frac{1}{6}$

A class consists of 12 boys and 16 girls. What is the probability that a randomly chosen student is a:

26. boy

$\frac{12}{28}$

27. girl

$\frac{16}{28}$

~~12+16~~
12+16=28 total students

A jar of marbles contains 3 red marbles, 4 blue marbles, and 5 white marbles. What is the probability that a randomly chosen marble is:

28. red

$\frac{3}{12}$

29. White

$\frac{5}{12}$

3R
4B
5W

30. Not blue

$\frac{8}{12}$ 3R 5W

31. Not red 4B 5W

$\frac{9}{12}$

12 total