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Pre-Algebra		Name:		
Probability		Period:	Date:	
PROBABILITY – All item reduce all fractions and ro	s on this page are prob	pability proble	ems. You should	Answers
				1.
Find each <u>probability</u> for of fraction.	one roll of a 6-sided die	e. Express you	ur answer as a	2
1. P(3)	2. P(3 or 4) as a perce	ent.	3. P(less than 4)	3
				4
				5
4. P(not 3)	5. P(not 1, 2, 3, or 5)		6. P(less than 4)	6
				7
				8
Find the probability of choosing a letter at random from the word				9
MATHEMATICS. Expre percent.	ess your answer as a pe	rcent. Round	to the nearest	10
7. P(K)	8. P(M, A, or T)		9. P(vowel)	11
				12
				13
10. P(consonant)	11. P(not M or A or T	E)		14

- 13. Your sock drawer is a mess. Twelve black socks and 6 red socks are mixed together. What is the chance (probability), without looking, you pick out a red sock? Express answer as a percent.
- 14. You randomly choose a card from a deck of 52 cards. What is the probability that the card will be a king? Express answer as a percent.



## ODDS. The following items are problems involving odds. Express the odds as a fraction or by using the word "to" (example: 5 to 1).

A teacher chooses a student at rand Find the <u>odds in favor</u> of each even	om from a class made up of 10 boys and 15 girls.	Answers
15. Choosing a girl.	16. Choosing a boy	15
		16.
		17
		18
You have a set of 36 flash cards nu	19.	
Find the odds in favor of each even	20.	
17. Even number 18. <b>G</b>	Greater than 20 19. Multiple of 3	21
		22.
		23
		24.
20. Greater than 5 but less than 10	21. Divisible by 10	25
20. Greater than 5 but less than 10	21. Divisible by 10	23 24

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For the spinner shown at the right, find the probability of each event and the odds in favor of the event. Express the probability as a fraction OR as a percent.



## **Odds and Probability - Open Ended**

26.	Give an example of an event where the probability equals 1. Explain and justify your answer
	Your friend is tossing a coin. He says that heads and tails are equally likely outcomes, so the pability is 50/50. Explain your friends error.
28.	Explain how you can use odds to find probability. Give an example.