



First Name: _____	Last Name: _____	Grade: _____
Teacher: _____	Parent's email: _____	

Bikes and Tikes

Lots of people ride bikes for lots of different reasons. Riding a bike offers many health benefits including increased strength, balance and flexibility, endurance and stamina. It can be done by people of all ages and it is fun! Math Challenge #3 provides you with themes around bicycles. Try to solve as many as you can.

Kinder & First Grade: solve at least 3 problems.
 Second & Third Grade: solve at least 6 problems.
 Fourth Grade and above: solve at least 12 problems.

<i>Problems</i>		<i>Answer</i>
1.	At the Meadow Park, Tina spotted 2 bicycles and 3 tricycles. How many wheels are there in all?	
2.	Jenna's family loves biking. Her mom and dad, each has two bicycles. Jenna and her little brother, each has 1 tricycle. How many wheels are there in all?	
3.	Tamara lined up to check-in for the bike parade at Derby Days. She noticed that there were 6 people in front of her and 6 people behind her in the line. How many people were waiting to be checked in for the bike parade?	
4.	 This year, Sean bikes to school. Sean's mom bought him a new helmet for \$23, a bike light for \$14, and a lock for \$8. How much money in total did Sean's mom spend for the helmet, light, and the lock?	
5.	The bicycle rack at Ellen's school has two identical rows. When she arrived this morning, every bike slot on the first row of the bicycle rack was filled. In the second row, there was one spot left in the middle. Ellen parked her bicycle in that last middle spot. There were four bicycles to the left of Ellen's. How many bicycles were in the bicycle rack (including Ellen's)?	
6.	On the first day of school, there were 14 kids riding their bikes to school. Now, 30 days after school started, there are 17 more kids riding their bikes to school. How many kids ride their bikes to school now?	
7.	Ned and Sue traveled with a bike tour group of 96 members. Half of them went to the east of the town to explore the beach side. This group explored the beach area in four equal small groups. How many people were in each small group?	
8.	In Redtown, all bikes are required to have a license plate. Ned's new bike license plate has his name and a three-digit number on it: NED _____. His favorite numbers are, 2, 4, 8, and 9. How many different license plates (without any number being repeated) can Ned design for his new bike?	

9. This year, Caroline entered 25 bike races. Out of the 25 races, she completed 7 more bike races in record time than non-record time. How many races did she actually complete in record time?



10. Melissa went to a bike shop to get a new helmet. She spent \$16.00 of her \$20.00 on the new helmet. She wants to buy a few candies at the counter. Each candy costs 85 cents. How many candies can she buy with her remaining money?

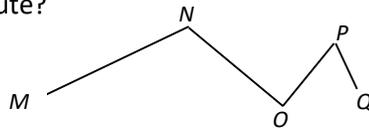
11. At Derby Days, 26 bicycles, 9 unicycles, and some tricycles were part of the parade. They were all decorated in red, white and blue. If there are a total of 97 wheels, how many tricycles were at the parade?

12. The parking lot at the Avalon 160 Apartment complex has 30 vehicles. Some are bicycles and some are cars (with four wheels). The total number of wheels are 88. How many of the vehicles are bicycles?

13. Rockwell's bike club celebrated the end of the year at a pizza parlor. Everyone in the club ordered either a small pizza for \$3.50 or a sub for \$4.50. There were ten people in the club and the total bill was \$38.00. How many of them ordered pizzas?



14. Below is the map for the Tour of Eastside bike route. The distance from M to N is 32 km. From N to O, the distance is $\frac{3}{4}$ of the distance from M to N. From O to P is $\frac{2}{3}$ of the distance from N to O. From P to Q is $\frac{1}{2}$ the distance from P to O. What is the total distance of the Tour of Eastside bike route?



15. Joey wants to buy a \$500 mountain bike. For his birthday, his grandparents send him \$60, his aunt sends him \$25 and his cousin gives him \$15. He earns \$16 per week for his paper route. He will use all of his birthday money and all of the money he earns from his paper route. In how many weeks will he be able to buy the mountain bike?



16. Todd came up with a practice schedule to get ready for Seattle-Portland Fun Bike. He will bike 126 miles this week. If he bikes twice as many miles on each day of the weekend as he does on each weekday, how many miles would he ride on Sunday?

17. Bicycling from Redland to Blueville on the Rocky Trail line, I passed a sign saying, "Blueville 5.6 miles." After riding for 1.9 miles, I passed another sign saying, "Redland 4.6 miles." How far is it from Redland to Blueville if you travel on a Rocky Trail line?

Math Challenge Tournament registration is open. All grade 2-5 students are invited to participate. Check the link below to find hosting schools nearby you. Seats are almost filled up.

<http://www.ellipsisacademy.com/math-challenge-tournament-2016---registration.html>