

Math Challenge #12



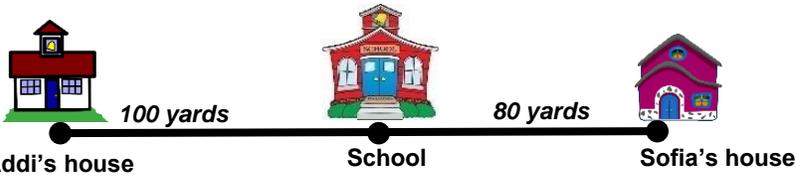
First Name: _____	Last Name: _____	Grade: _____
Teacher: _____	Parent's email: _____	

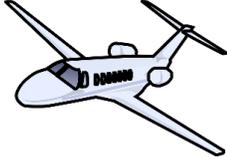
All Transportations

Welcome to the Math Challenge #12. This Math Challenge is all about transportation. These transportation math problems include figuring out time, distance, and fuel and the relationships between these numbers. Enjoy solving them!

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

Answer

<p>1.</p> <div style="text-align: center;">  </div> <p>Jaden biked to the library from his home. On the way there, he stopped by the post office to mail a package. At the library, he checked out two books then biked back home before dinner time. How far did he bike?</p>	
<p>2. Who lives closer to the school? By how many yards?</p> <div style="text-align: center;">  </div>	
<p>3. A school bus has a driver and 6 students. At each stop 2 more students get on. How many people are on the bus after 3 stops?</p>	
<p>4. Starting at his house, Sam biked 4 miles and then took a short rest. He then biked another 5 miles. He still had 7 miles to bike to get to his destination. What is the distance from his house to his destination?</p>	
<p>5.</p> <div style="display: flex; align-items: center;">  <p>23 people are going on a camping trip. If each car can hold 5 people, what is the least number of cars needed to fit everyone?</p> </div>	
<p>6. A train has 3 passenger cars. If each car holds 18 passengers and each is half full, how many passengers are on the train?</p>	

<p>7. Daniel boards on a small plane that has seats for 36 passengers. He counts there are 9 empty seats before sitting down in one of them. How many passengers are on the plane?</p>		
<p>8. The minibus can carry twice as many passengers as the minivan. If there are a total of 42 people in both vehicles, how many people are in the minibus?</p>		
<p>9. Regina drives twice as fast as Peter. They both leave at the same time from the same location for an eighty miles trip to Leavenworth. When Regina arrives, how many more miles does Peter have left to drive?</p>		
<p>10. Two cars start at the same time, from the same point, driving along the same road. The rate of the first car is 50 mph and the rate of the second car is 60 mph. How long (in hours) will it take for the distance between the two cars to be 30 miles?</p>		
<p>11. The RWB passenger train has red, white and blue cars. It has twice as many red cars as white cars. The number of blue cars is 3 more than half the number of red and white cars. If the train has 21 cars, how many of each car does it have?</p>		
<p>12. On a certain airplane, the rows are numbered from 1 to 30, but there is no row number 13. Row 17 has only 4 passenger seats, and all other rows have 6 passenger seats. How many passenger seats are on this airplane?</p>		
<p>13. Aidan left home and drove at the rate of 45 mph for 2 hours. He stopped for lunch then drove for another 3 hours at the rate of 55 mph to reach his destination. How many miles did Aidan drive?</p>		
<p>14. Sarah and Ashrita race their cars on a circular track that is 10 miles around. If Sarah drives at 60 miles per hour and Ashrita drives at 45 mph and they start at the same time and at the same place, how long in minutes does it take for Sarah to catch up with Ashrita again?</p>		
<p>15. The Durham family is going on a trip to Portland and back. It is 343 miles from home to Portland. Determine the total cost of the gas for the Durham family's trip to Portland and back, if the cost of gas is \$3.50 per gallon. The family car can travel 28 miles per gallon.</p>		

<p>16. Pranav flies an airplane from Seattle to Pullman, a distance of 245 miles. He flies at an air speed of 100 mph for part of the trip but is then slowed down by 20 mph from a headwind for the remainder of his trip. If the trip takes 2 hours and 45 minutes how long did Pranav fly at 100 mph before being slowed down?</p>	
<p>17. Melia left home and drove for 2 hours. She stopped for lunch then drove for another 3 hours at a rate that is 10 mph higher than the rate before she had lunch. If the total distance Melia traveled is 230 miles, what was the rate before lunch?</p>	
<p>18. Ron was bragging to his sister about how fast he could ride his bike. If Ron travels at 12 mph while his sister travels at 8 mph, how long will it take Ron to catch up her sister if he gives her a 3-hour head start?</p>	

Solution is available on April 2, 2020 at www.mathinaction.org