

One point per problem

1. At 60 miles/hour how far would a car travel in 2 hours and 40 minutes?
2. A number is divided by -6 , multiplied by $\frac{3}{4}$ and added to $6\frac{1}{2}$. The result is 18.5. What is the number?
3. The perimeter of a rectangle is 64 ft, and the length is 12 ft. Find the width of the rectangle.
4. After three games, Elena's bowling average is 105. Her first two scores were 112 and 96. What was her score on the third game?
5. It will take the Guptas 9 hours and 15 minutes to drive to Albany. If they want to arrive at 4:30 P.M., what time should they leave? (Indicate A.M. or P.M.)
6. After each bounce of a ball, it goes $\frac{2}{3}$ as high as on the previous bounce. After the second bounce, the ball rebounds 12in. off the floor. How high did the ball rebound after the first bounce?
7. A delivery truck leaves a warehouse and travels in the following directions: 6 km east, then 4 km south, then 2 km west, and 7 km north. How far is the truck from the warehouse at the end of the trip?
8. Tanya earns a salary of \$1050 per month, plus a commission of 2% of sales. What must be the amount of her sales to earn a total of at least \$1,800 in one month?
9. A math contest consists of ten problems. Three points are given for each correct answer. One point is deducted for each incorrect answer. Estelle answers all the problems and scores 18 points. How many correct answers does she have?
10. The sum of five consecutive numbers is 415. Find the numbers.

Two points per problem

11. Bert bought a case of pens. On Monday, he sold half the pens. On Tuesday, he sold 30 more. On Wednesday, he sold half the pens that were left. On Thursday he sold the remaining 40 pens. How many pens were in the case?
12. A Ferris wheel has 12 seats each holding 3 people. It takes 9 minutes for the ride to run and for all the seats to empty and reload. You get in line for the ride at 12:48 P.M. just as the ride is starting. At what time will your ride start if there are 120 people in front of you in line?
13. Peggy wants to cover the floor of her 12 ft-by-12 ft room with black and white tiles in a checkerboard pattern. Each tile is a 9 in.-by-9 in. square. How many tiles of each color will Peggy need to order?
14. In a music poll of 25 students, 15 liked rock, 9 liked jazz, and 12 liked rap. Four students liked all three types of music, 4 liked only rock and jazz, and 5 liked only rock and rap. If no students liked only jazz and rap, how many students did not like any of these types of music?
15. Al, Barbara, Carla and Dan have different vehicles: a sports car, a van, a pick-up truck, and a convertible. Use the clues to tell who owns each vehicle.
 - a. Barbara went for a ride in her friend's convertible on Saturday and another friend's sports car on Sunday.
 - b. Carla does not own a sports car.
 - c. Dan's name rhymes with his vehicle.

School Name _____

JR. HIGH MATH LEAGUE

Problem Solving

GROUP 8-II TEST B

Spring 2001

ANSWER SHEET

One point per problem

1. _____ miles
2. _____
3. width=_____ feet
4. _____
5. _____
6. _____ inches
7. _____ kilometers
8. \$_____
9. _____ correct answers
10. _____, _____, _____, _____, _____

Two points per problem

11. _____ pens
12. _____ P.M.
13. _____ black
_____ white
14. _____ students
15. Al=_____
- Barbara=_____
- Carla=_____
- Dan=_____