

**Unit 4: Inequalities and Formulas**

# Formulas: Distance/Rate/Time



The swift, a bird, can fly 170 kilometers per hour.  
How far will it fly in 3 hours?

- Step 1  $d = rt$
- Step 2  $d = 170(3)$
- Step 3  $d = 510$

$d =$  distance  
 $r =$  rate  
 $t =$  time

The swift will fly 510 kilometers.

Use the distance formula. Solve.

1.  $r = 78$  km/h

$t = 4$  hours

$d =$  \_\_\_\_\_

2.  $d = 175$  km

$r = 25$  km/h

$t =$  \_\_\_\_\_

3.  $d = 475$  km

$t = 5$  hours

$r =$  \_\_\_\_\_

4.  $r = 53$  km/h

$t = 7$  hours

$d =$  \_\_\_\_\_

5.  $d = 1,800$  km

$t = 6$  hours

$r =$  \_\_\_\_\_

6.  $d = 10,500$  km

$r = 700$  km/h

$t =$  \_\_\_\_\_

7. An express train travels 315 kilometers in 3 hours. What is the train's average rate of speed? \_\_\_\_\_
8. Janis rode her bicycle 52 kilometers. She rode at a rate of 13 kilometers per hour. How long did she ride? \_\_\_\_\_
9. Giorgio drives 380 kilometers from the North Shore to the South Bank at a rate of 95 kilometers per hour. How long is the trip? \_\_\_\_\_
10. Rebecca and Sanford walked around the city from noon until 4:00 P.M. They walked at a rate of 3 kilometers per hour. How far did they walk? \_\_\_\_\_