

Name: _____

Two variable Word Problems

Algebra WS 2.5

1. A father is 32 years older than his son. In 4 years the father will be 5 times as old as his son. How old is each now?
2. Shelly is 4 years older than her brothers. Six years ago, she was twice as old as he was. How old is each now?
3. A mother is 20 years older than her daughter. In 7 years, the mother will be 3 times as old as her daughter. How old is each now?
4. Barry is 16 years older than Sam. In 4 years, Barry will be twice as old as Sam. What are their ages now?
5. The sum of Rene's age and her grandmother's age is 71. Four times Rene's age is 6 less than her grandmother's age. Find their ages.
6. A daughter is 28 years younger than her father. In 5 years, the father will be 3 times as old as his daughter. How old is each now?
7. A plane leaves Birmingham and heads for Chicago, which is about 750 miles away. The plane, flying against the wind, takes 2.5 hours to reach Chicago. After refueling, the plane returns to Birmingham, traveling with the wind, in 2 hours. Find the speed of the wind and the speed of the plane with no wind.
8. A plane leaves Washington D.C., and heads towards Los Angeles, which is 2300 miles away. The plane, flying against the wind, takes 5 hours to reach L.A. After refueling, the plane returns to Washington D.C., traveling with the wind, in 4 hours. Find the speed of the wind and speed of the plane with no wind.
9. A riverboat traveling the current takes 2.5 hours to make a trip of 45 miles. The return trip, against the current, takes 2.75 hours. Find the speed of the current and the speed of the boat in still water.
10. Sailing with a current, a boat takes 3 hours to travel 48 miles. The return trip, against the current, takes 4 hours. Find the average speed of the boat for the entire trip and the speed of the current.