Solve each problem.

1) A water hose had filled up \( \frac{1}{4} \) of a pool after \( \frac{1}{7} \) of an hour. At this rate, how many hours would it take to fill the pool?

2) A snail going full speed was taking \( \frac{1}{5} \) of a minute to move \( \frac{1}{9} \) of a centimeter. At this rate, how long would it take the snail to travel a centimeter?

3) A pencil making machine took \( \frac{1}{7} \) of a second to make enough pencils to fill \( \frac{1}{10} \) of a box. At this rate, how long would it take the machine to fill the entire box?

4) A dejuicer was able to squeeze a pint of juice from \( \frac{1}{10} \) bag of oranges. This amount of juice filled up \( \frac{1}{10} \) of a jug. At this rate, how many bags will it take to fill the entire jug?

5) Janet spent \( \frac{1}{9} \) of an hour playing on her phone. That used up \( \frac{1}{4} \) of her battery. How long would she have to play on her phone to use the entire battery?

6) While exercising Mike walked \( \frac{1}{8} \) of a mile in \( \frac{1}{6} \) of an hour. At this rate, how far will he have travelled after an hour?

7) A carpenter used \( \frac{1}{2} \) of a box of nails while working on a birdhouse and was able to finish \( \frac{1}{5} \) of it. At this rate, how many boxes will he need to finish the entire birdhouse?

8) A chef used \( \frac{1}{9} \) of a bag of potatoes to make \( \frac{1}{5} \) of a gallon of stew. If he wanted to make a full gallon of stew how many bags of potatoes would he need?

9) A restaurant took \( \frac{1}{10} \) of an hour to use \( \frac{1}{9} \) of a package of napkins. At this rate, how many hours would it take to use the entire package?

10) A water hose had filled up \( \frac{1}{3} \) of a pool after \( \frac{1}{10} \) of an hour. At this rate, how many hours would it take to fill the pool?
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