

**Solve each problem.**

- 1) A water hose had filled up $\frac{1}{7}$ of a pool after $\frac{1}{6}$ of an hour. At this rate, how many hours would it take to fill the pool?
- 2) A snail going full speed was taking $\frac{1}{3}$ of a minute to move $\frac{1}{3}$ of a centimeter. At this rate, how long would it take the snail to travel a centimeter?
- 3) A pencil making machine took $\frac{1}{8}$ of a second to make enough pencils to fill $\frac{1}{6}$ 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 $\frac{1}{7}$ bag of oranges. This amount of juice filled up $\frac{1}{3}$ of a jug. At this rate, how many bags will it take to fill the entire jug?
- 5) Debby spent $\frac{1}{6}$ of an hour playing on her phone. That used up $\frac{1}{5}$ of her battery. How long would she have to play on her phone to use the entire battery?
- 6) While exercising Roger walked $\frac{1}{2}$ of a mile in $\frac{1}{3}$ of an hour. At this rate, how far will he have travelled after an hour?
- 7) A carpenter used $\frac{1}{6}$ of a box of nails while working on a birdhouse and was able to finish $\frac{1}{7}$ 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 $\frac{1}{3}$ 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 $\frac{1}{2}$ 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 $\frac{1}{2}$ of a pool after $\frac{1}{9}$ of an hour. At this rate, how many hours would it take to fill the pool?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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Answers

1. 1 $\frac{1}{6}$ hours
2. 1 minute
3. $\frac{6}{8}$ second
4. $\frac{3}{7}$ bag
5. $\frac{5}{6}$ hour
6. 1 $\frac{1}{2}$ miles
7. 1 $\frac{1}{6}$ boxes
8. $\frac{3}{9}$ bag
9. $\frac{2}{10}$ hour
10. 4 $\frac{1}{2}$ hours