

**Solve each problem.**

- 1) A water hose had filled up  $\frac{1}{3}$  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  $\frac{1}{7}$  of a minute to move  $\frac{1}{7}$  of a centimeter. At this rate, how long would it take the snail to travel a centimeter?
- 3) A pencil making machine took  $\frac{1}{10}$  of a second to make enough pencils to fill  $\frac{1}{9}$  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  $\frac{1}{6}$  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) Katie spent  $\frac{1}{3}$  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 Luke walked  $\frac{1}{4}$  of a mile in  $\frac{1}{5}$  of an hour. At this rate, how far will he have travelled after an hour?
- 7) A carpenter used  $\frac{1}{3}$  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  $\frac{1}{5}$  of a bag of potatoes to make  $\frac{1}{2}$  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  $\frac{1}{2}$  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  $\frac{1}{9}$  of a pool after  $\frac{1}{7}$  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.  $\frac{3}{6}$  hour
2. 1 minute
3.  $\frac{9}{10}$  second
4.  $1\frac{4}{6}$  bags
5.  $1\frac{1}{3}$  hours
6.  $1\frac{1}{4}$  miles
7.  $2\frac{1}{3}$  boxes
8.  $\frac{2}{5}$  bag
9.  $4\frac{1}{2}$  hours
10.  $\frac{7}{9}$  hour