



Solve each problem.

- 1) It takes a baker  $\frac{1}{2}$  of an hour to make enough cookies to fill  $\frac{1}{3}$  of large box. How long would it take him to fill the whole box?
- 2) A water hose had filled up  $\frac{1}{3}$  of a pool after  $\frac{1}{2}$  of an hour. At this rate, how many hours would it take to fill the pool?
- 3) Faye spent  $\frac{1}{2}$  of an hour playing on her phone. That used up  $\frac{1}{3}$  of her battery. How long would she have to play on her phone to use the entire battery?
- 4) An old potato outputs  $\frac{1}{2}$  of a volt of electricy, which is  $\frac{1}{3}$  the amount of power needed for a small lightbulb. How many potatoes would you need to power the lightbulb?
- 5) A bag of chocolate mix that weighed  $\frac{1}{2}$  of a kilogram could make enough brownies to feed  $\frac{1}{3}$  of the students at school. How many bags would be needed to feed all of the students?
- 6) A container of gasoline that held  $\frac{1}{2}$  of a liter could fill up  $\frac{1}{3}$  of a motorcycle gas tank. How many containers would you need to fill up the gas tank entirely?
- 7) A snail going full speed was taking  $\frac{1}{2}$  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?
- 8) While exercising Billy 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?
- 9) A bag of grass seeds weighed  $\frac{1}{2}$  of a kilogram. That was enough to cover  $\frac{1}{3}$  of a front lawn with seed. How many bags would it take to completely cover a lawn?
- 10) A restaurant took  $\frac{1}{2}$  of an hour to use  $\frac{1}{3}$  of a package of napkins. At this rate, how many hours would it take to use the entire package?

**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



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**Answers**

1.  **$1\frac{1}{2}$  hours**
2.  **$1\frac{1}{2}$  hours**
3.  **$1\frac{1}{2}$  hours**
4. **3 potatoes**
5. **3 bags**
6. **3 containers**
7.  **$1\frac{1}{2}$  minutes**
8.  **$1\frac{1}{2}$  miles**
9. **3 bags**
10.  **$1\frac{1}{2}$  hours**