# Using Units Rates with Fractions

Name:

**Solve each problem. Answer as a mixed number (if possible).**

**1)** A machine made $2\frac{3}{6}$ pencils in $\frac{2}{5}$ of a minute. It made pencils at a rate of how many per minute?

**2)** A water faucet leaked $3\frac{1}{3}$ liters of water over the course of $2\frac{1}{4}$ hours. How many liters would it have leaked after 6 hours?

**3)** A cookie recipe called for $2\frac{1}{2}$ cups of sugar for every $2\frac{1}{6}$ cups of flour. If you made a batch of cookies using 8 cup of flour, how many cups of sugar would you need?

**4)** It takes $2\frac{1}{2}$ kilometers of thread to make $3\frac{2}{3}$ boxes of shirts. How many kilometers of thread will it take to make 7 boxes?

**5)** A bag with $2\frac{1}{2}$ ounces of peanuts can make $\frac{3}{4}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

**6)** A container with $2\frac{2}{3}$ gallons of weed killer can spray $3\frac{3}{4}$ lawns. How many gallons would it take to spray 7 lawns?

**7)** A printer cartridge with $3\frac{4}{5}$ milliliters of ink will print off $\frac{1}{5}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

**8)** It takes $2\frac{1}{5}$ gallons of water to fill up $3\frac{2}{3}$ containers. How much water would it take to fill 2 containers?

**9)** A bike tire was $\frac{4}{6}$ full. It took a small air compressor $2\frac{1}{4}$ seconds to fill it up. How long would it have taken to fill an empty tire?

**10)** A chef had to fill up $\frac{1}{4}$ of a container with mashed potatoes. He ended up using $3\frac{2}{3}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up the entire container?

**Answers**

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



| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|

Using Units Rates with Fractions Name: **Answer Key**

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**Answers**

1. $6\frac{3}{12}$
2. $8\frac{24}{27}$
3. $9\frac{6}{26}$
4. $4\frac{17}{22}$
5. $3\frac{2}{6}$
6. $4\frac{44}{45}$
7. $19\frac{0}{5}$
8. $1\frac{11}{55}$
9. $3\frac{6}{16}$
10. $14\frac{2}{3}$



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