



Using Units Rates with Fractions

Name: _____

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

- 1) A water faucet leaked $2\frac{3}{4}$ liters of water every $2\frac{1}{3}$ of an hour. It leaked at a rate of how many liters per hour?

- 2) A chef had to fill up $2\frac{2}{3}$ containers with mashed potatoes. He ended up using $3\frac{2}{5}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 9 containers?

- 3) A cookie recipe called for $3\frac{2}{3}$ cups of sugar for every $3\frac{3}{4}$ cups of flour. If you made a batch of cookies using 4 cup of flour, how many cups of sugar would you need?

- 4) A carpenter goes through $3\frac{1}{2}$ boxes of nails finishing $2\frac{4}{6}$ rooves. How much would he use finishing 4 rooves?

- 5) A bag with $3\frac{2}{6}$ ounces of peanuts can make $\frac{2}{3}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

- 6) A bike tire was $\frac{2}{4}$ full. It took a small air compressor $3\frac{3}{4}$ seconds to fill it up. How long would it have taken to fill an empty tire?

- 7) A container with $2\frac{1}{3}$ gallons of weed killer can spray $2\frac{3}{5}$ lawns. How many gallons would it take to spray 9 lawns?

- 8) It takes $3\frac{4}{5}$ spoons of chocolate syrup to make $\frac{2}{3}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

- 9) It takes $2\frac{4}{6}$ kilometers of thread to make $3\frac{1}{2}$ boxes of shirts. How many kilometers of thread will it take to make 3 boxes?

- 10) A machine made $3\frac{1}{2}$ pencils in $2\frac{1}{4}$ of a minute. It made pencils at a rate of how many per minute?

Answers

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



Using Units Rates with Fractions

Name: **Answer Key**

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Answers

1. $4\frac{1}{8}$

2. $11\frac{19}{40}$

3. $3\frac{41}{45}$

4. $5\frac{8}{32}$

5. $5\frac{0}{12}$

6. $7\frac{4}{8}$

7. $8\frac{3}{39}$

8. $5\frac{7}{10}$

9. $2\frac{12}{42}$

10. $7\frac{0}{4}$



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