Using Units Rates with Fractions

Name:

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

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

2) A tire shop had to fill $3\ ^{2}/_{4}$ tires with air. It took a small air compressor $2\ ^{2}/_{4}$ seconds to fill them up. How long would it take to fill 7 tires?

3) A cookie recipe called for $2\ ^{2}/_{4}$ cups of sugar for every $^{2}/_{6}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

4) It takes $3\ ^{1}/_{3}$ spoons of chocolate syrup to make $^{4}/_{6}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

5) It takes $3\ ^{1}/_{3}$ kilometers of thread to make $3\ ^{2}/_{3}$ boxes of shirts. How many kilometers of thread will it take to make 7 boxes?

6) A carpenter goes through $2\ ^{1}/_{5}$ boxes of nails finishing $^{4}/_{5}$ of a roof. How much would he use finishing the entire roof?

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

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

9) A bag with $3\ ^{1}/_{3}$ ounces of peanuts can make $^{1}/_{3}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

10) A machine made $2\ ^{1}/_{2}$ pencils in $3\ ^{1}/_{2}$ minutes. How many pencils would the machine have made after 9 minutes?

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**

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

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Answers

1. $2\frac{26}{35}$
2. $5\frac{0}{56}$
3. $7\frac{4}{8}$
4. $5\frac{0}{12}$
5. $6\frac{12}{33}$
6. $2\frac{15}{20}$
7. $7\frac{2}{4}$
8. $5\frac{1}{3}$
9. $10\frac{0}{3}$
10. $6\frac{6}{14}$

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