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

1) A cookie recipe called for $2\frac{4}{5}$ cups of sugar for every $\frac{2}{3}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

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

3) A water faucet leaked $2\frac{2}{5}$ liters of water every $\frac{3}{5}$ of an hour. It leaked at a rate of how many liters per hour?

4) It takes $3\frac{1}{5}$ yards of thread to make $\frac{2}{3}$ of a sock. How many yards of thread will it take to make an entire sock?

5) A container with $2\frac{3}{4}$ gallons of weed killer can spray $2\frac{5}{6}$ lawns. How many gallons would it take to spray 9 lawns?

6) A chef had to fill up $\frac{2}{6}$ of a container with mashed potatoes. He ended up using $2\frac{3}{5}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up the entire container?

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

8) It takes $3\frac{5}{6}$ gallons of water to fill up $2\frac{2}{4}$ containers. How much water would it take to fill 3 containers?

9) A printer cartridge with $2\frac{1}{6}$ milliliters of ink will print off $2\frac{1}{3}$ reams of paper. How many milliliters of ink will it take to print 2 reams?

10) A tire shop had to fill $2\frac{1}{2}$ tires with air. It took a small air compressor $3\frac{1}{2}$ seconds to fill them up. How long would it take to fill 8 tires?

Answers

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

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

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Answers

1. $4\frac{2}{10}$
2. $4\frac{0}{6}$
3. $4\frac{0}{15}$
4. $4\frac{8}{10}$
5. $8\frac{50}{68}$
6. $7\frac{8}{10}$
7. $7\frac{0}{4}$
8. $4\frac{36}{60}$
9. $1\frac{36}{42}$
10. $11\frac{2}{10}$

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

Using Units Rates with Fractions

Name:

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

$1\frac{36}{42}$	$7\frac{8}{10}$	$4\frac{2}{10}$	$4\frac{36}{60}$	$4\frac{0}{15}$
$8\frac{50}{68}$	$4\frac{0}{6}$	$11\frac{2}{10}$	$7\frac{0}{4}$	$4\frac{8}{10}$

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