Using Units Rates with Fractions

Name:

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

1) A machine made $2\frac{1}{6}$ pencils in $3\frac{5}{6}$ minutes. How many pencils would the machine have made after 3 minutes?

2) It takes $3\frac{5}{6}$ spoons of chocolate syrup to make $\frac{3}{4}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

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

4) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $2\frac{2}{4}$ reams of paper. How many milliliters of ink will it take to print 8 reams?

5) A bike tire was $\frac{1}{5}$ full. It took a small air compressor $3\frac{4}{5}$ seconds to fill it up. How long would it have taken to fill an empty tire?

6) A bucket of water was $\frac{2}{3}$ full, but it still had $3\frac{3}{5}$ gallons of water in it. How much water would be in one fully filled bucket?

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

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

9) A water faucet leaked $3\frac{4}{5}$ liters of water over the course of $2\frac{2}{5}$ hours. How many liters would it have leaked after 7 hours?

10) A chef had to fill up $3\frac{1}{2}$ containers with mashed potatoes. He ended up using $3\frac{2}{6}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 6 containers?

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. $1\frac{96}{138}$
2. $5\frac{2}{18}$
3. $5\frac{0}{2}$
4. $8\frac{0}{20}$
5. $19\frac{0}{5}$
6. $5\frac{4}{10}$
7. $4\frac{0}{30}$
8. $8\frac{10}{55}$
9. $11\frac{5}{60}$
10. $5\frac{30}{42}$

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

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$4\frac{0}{30}$	$8\frac{0}{20}$	$5\frac{0}{2}$	$1\frac{96}{138}$	$19\frac{0}{5}$
$8\frac{10}{55}$	$5\frac{2}{18}$	$5\frac{30}{42}$	$5\frac{4}{10}$	$11\frac{5}{60}$

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