Using Units Rates with Fractions

Name:

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

1) A printer cartridge with $3\frac{2}{3}$ milliliters of ink will print off $\frac{2}{4}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

2) A cookie recipe called for $3\frac{1}{2}$ cups of sugar for every $\frac{5}{6}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

3) A container with $3\frac{1}{5}$ liters of weed killer can spray $\frac{1}{4}$ of a lawn. How many liters would it take to spray 1 entire lawn?

4) A bucket of water was $\frac{1}{2}$ full, but it still had $2\frac{4}{5}$ gallons of water in it. How much water would be in one fully filled bucket?

5) A bike tire was $\frac{1}{2}$ full. It took a small air compressor $3\frac{1}{3}$ seconds to fill it up. How long would it have taken to fill an empty tire?

6) It takes $2\frac{1}{2}$ yards of thread to make $\frac{4}{6}$ of a sock. How many yards of thread will it take to make an entire sock?

7) A machine made $2\frac{2}{3}$ pencils in $2\frac{1}{4}$ minutes. How many pencils would the machine have made after 5 minutes?

8) A carpenter goes through $2\frac{4}{5}$ boxes of nails finishing $3\frac{1}{3}$ rooves. How much would he use finishing 4 rooves?

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

10) A bag with $3\frac{4}{6}$ quarts of peanuts can make $2\frac{3}{6}$ jars of peanut butter. How many quarts of peanuts would you need to make 5 jars?

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. $7\frac{2}{6}$
2. $4\frac{2}{10}$
3. $12\frac{4}{5}$
4. $5\frac{3}{5}$
5. $6\frac{2}{3}$
6. $3\frac{6}{8}$
7. $5\frac{25}{27}$
8. $3\frac{18}{50}$
9. $4\frac{19}{44}$
10. $7\frac{30}{90}$

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$5\frac{25}{27}$	$5\frac{3}{5}$	$4\frac{2}{10}$	$3\frac{6}{8}$	$3\frac{18}{50}$
$4\frac{19}{44}$	$7\frac{2}{6}$	$6\frac{2}{3}$	$7\frac{30}{90}$	$12\frac{4}{5}$

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