Using Units Rates with Fractions

Name:

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

1) A container with $3\frac{1}{4}$ gallons of weed killer can spray $3\frac{1}{3}$ lawns. How many gallons would it take to spray 9 lawns?

2) A printer cartridge with $2\frac{1}{5}$ milliliters of ink will print off $3\frac{1}{2}$ reams of paper. How many milliliters of ink will it take to print 2 reams?

3) A bucket of water was $\frac{1}{2}$ full, but it still had $3\frac{2}{3}$ gallons of water in it. How much water would be in one fully filled bucket?

4) A carpenter goes through $2\frac{3}{4}$ boxes of nails finishing $2\frac{1}{2}$ rooves. How much would he use finishing 9 rooves?

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

6) A machine made $3\frac{1}{4}$ pencils in $\frac{3}{5}$ of a minute. It made pencils at a rate of how many per minute?

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

8) A bag with $3\frac{5}{6}$ ounces of peanuts can make $\frac{1}{3}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

9) It takes $3\frac{2}{3}$ 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?

10) A water faucet leaked $2\frac{1}{2}$ liters of water over the course of $2\frac{2}{3}$ hours. How many liters would it have leaked after 2 hours?

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. $8\frac{31}{40}$
2. $1\frac{9}{35}$
3. $7\frac{1}{3}$
4. $9\frac{18}{20}$
5. $6\frac{0}{42}$
6. $5\frac{5}{12}$
7. $4\frac{2}{3}$
8. $11\frac{3}{6}$
9. $5\frac{3}{6}$
10. $1\frac{14}{16}$

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$9\frac{18}{20}$	$5\frac{3}{6}$	$5\frac{5}{12}$	$1\frac{14}{16}$	$1\frac{9}{35}$
$4\frac{2}{3}$	$8\frac{31}{40}$	$7\frac{1}{3}$	$11\frac{3}{6}$	$6\frac{0}{42}$

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