Using Units Rates with Fractions

Name:

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

1) A bag with $3\frac{1}{3}$ quarts of peanuts can make $3\frac{2}{4}$ jars of peanut butter. How many quarts of peanuts would you need to make 7 jars?

2) A cookie recipe called for $2\frac{2}{3}$ 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?

3) A container with $3\frac{1}{2}$ gallons of weed killer can spray $3\frac{3}{4}$ lawns. How many gallons would it take to spray 8 lawns?

4) A machine made $2\frac{3}{4}$ pencils in $2\frac{3}{6}$ minutes. How many pencils would the machine have made after 2 minutes?

5) A tire shop had to fill $2\frac{1}{2}$ tires with air. It took a small air compressor $3\frac{2}{3}$ seconds to fill them up. How long would it take to fill 4 tires?

6) A bucket of water was $\frac{3}{4}$ full, but it still had $3\frac{3}{4}$ gallons of water in it. How much water would be in one fully filled bucket?

7) It takes $2\frac{1}{4}$ kilometers of thread to make $3\frac{1}{5}$ boxes of shirts. How many kilometers of thread will it take to make 2 boxes?

8) A carpenter goes through $3\frac{4}{6}$ boxes of nails finishing $\frac{5}{6}$ of a roof. How much would he use finishing the entire roof?

9) A printer cartridge with $2\frac{3}{4}$ milliliters of ink will print off $2\frac{1}{2}$ reams of paper. How many milliliters of ink will it take to print 8 reams?

10) A water faucet leaked $2\frac{1}{2}$ liters of water every $\frac{1}{3}$ of an hour. It leaked at a rate of how many liters per hour?

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. $6\frac{28}{42}$
2. $5\frac{1}{3}$
3. $7\frac{14}{30}$
4. $2\frac{12}{60}$
5. $5\frac{13}{15}$
6. $5\frac{0}{12}$
7. $1\frac{26}{64}$
8. $4\frac{12}{30}$
9. $8\frac{16}{20}$
10. $7\frac{1}{2}$

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$8\frac{16}{20}$	$5\frac{0}{12}$	$5\frac{13}{15}$	$1\frac{26}{64}$	$2\frac{12}{60}$
$4\frac{12}{30}$	$7\frac{14}{30}$	$6\frac{28}{42}$	$5\frac{1}{3}$	$7\frac{1}{2}$

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