Using Units Rates with Fractions

Name:

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

1) It takes $3\frac{1}{2}$ gallons of water to fill up $3\frac{1}{2}$ containers. How much water would it take to fill 7 containers?

2) A bike tire was $\frac{2}{5}$ full. It took a small air compressor $2\frac{1}{6}$ seconds to fill it up. How long would it have taken to fill an empty tire?

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

4) It takes $2\frac{4}{6}$ kilometers of thread to make $3\frac{3}{5}$ boxes of shirts. How many kilometers of thread will it take to make 7 boxes?

5) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $3\frac{3}{6}$ reams of paper. How many milliliters of ink will it take to print 7 reams?

6) A water faucet leaked $2\frac{4}{5}$ liters of water every $\frac{2}{3}$ of an hour. It leaked at a rate of how many liters per hour?

7) A chef had to fill up $2\frac{2}{5}$ containers with mashed potatoes. He ended up using $3\frac{1}{4}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 5 containers?

8) A carpenter goes through $2\frac{2}{6}$ boxes of nails finishing $\frac{2}{4}$ of a roof. How much would he use finishing the entire roof?

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

10) A bag with $2\frac{2}{6}$ 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?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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1-10	90	80	70	60	50	40	30	20	10	0

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Answers

1. $7\frac{0}{14}$
2. $5\frac{5}{12}$
3. $7\frac{3}{15}$
4. $5\frac{20}{108}$
5. $5\frac{0}{42}$
6. $4\frac{2}{10}$
7. $6\frac{37}{48}$
8. $4\frac{8}{12}$
9. $9\frac{0}{20}$
10. $7\frac{0}{6}$

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$6\frac{37}{48}$	$7\frac{0}{14}$	$7\frac{3}{15}$	$7\frac{0}{6}$	$4\frac{2}{10}$

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