Using Units Rates with Fractions

Name:

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

1) A printer cartridge with $3\frac{4}{5}$ milliliters of ink will print off $\frac{3}{5}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

2) A water faucet leaked $2\frac{2}{3}$ liters of water over the course of $3\frac{1}{3}$ hours. How many liters would it have leaked after 6 hours?

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

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

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

6) A tire shop had to fill $2\frac{3}{5}$ tires with air. It took a small air compressor $3\frac{2}{5}$ seconds to fill them up. How long would it take to fill 8 tires?

7) A chef had to fill up $3\frac{3}{4}$ 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 7 containers?

8) A bag with $2\frac{2}{4}$ ounces of peanuts can make $\frac{1}{2}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

9) A cookie recipe called for $3\frac{2}{4}$ cups of sugar for every $\frac{1}{4}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

10) It takes $2\frac{2}{6}$ kilometers of thread to make $2\frac{5}{6}$ boxes of shirts. How many kilometers of thread will it take to make 8 boxes?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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

Using Units Rates with Fractions

Name: **Answer Key**

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

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Answers

1. $6\frac{5}{15}$
2. $4\frac{24}{30}$
3. $5\frac{0}{4}$
4. $4\frac{3}{12}$
5. $3\frac{3}{65}$
6. $10\frac{30}{65}$
7. $6\frac{20}{90}$
8. $5\frac{0}{4}$
9. $14\frac{0}{4}$
10. $6\frac{60}{102}$

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

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$6\frac{20}{90}$	$5\frac{0}{4}$	$10\frac{30}{65}$	$6\frac{5}{15}$	$14\frac{0}{4}$
$5\frac{0}{4}$	$6\frac{60}{102}$	$3\frac{3}{65}$	$4\frac{24}{30}$	$4\frac{3}{12}$

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