Using Units Rates with Fractions

Name:

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

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

2) It takes $3\ ^{3}/_{4}$ spoons of chocolate syrup to make $^{2}/_{5}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

3) A machine made $2\ ^{2}/_{5}$ pencils in $^{1}/_{2}$ of a minute. It made pencils at a rate of how many per minute?

4) A container with $2\ ^{2}/_{3}$ liters of weed killer can spray $^{5}/_{6}$ of a lawn. How many liters would it take to spray 1 entire lawn?

5) A chef had to fill up $3\ ^{1}/_{6}$ containers with mashed potatoes. He ended up using $2\ ^{1}/_{2}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 2 containers?

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

7) A water faucet leaked $2\ ^{3}/_{4}$ liters of water over the course of $3\ ^{1}/_{2}$ hours. How many liters would it have leaked after 7 hours?

8) A bag with $3\ ^{1}/_{4}$ ounces of peanuts can make $^{2}/_{3}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

9) It takes $2\ ^{5}/_{6}$ yards of thread to make $^{1}/_{2}$ of a sock. How many yards of thread will it take to make an entire sock?

10) It takes $3\ ^{2}/_{3}$ gallons of water to fill up $2\ ^{4}/_{5}$ containers. How much water would it take to fill 2 containers?

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. $4\frac{10}{20}$
2. $9\frac{3}{8}$
3. $4\frac{4}{5}$
4. $3\frac{3}{15}$
5. $1\frac{22}{38}$
6. $6\frac{48}{55}$
7. $5\frac{14}{28}$
8. $4\frac{7}{8}$
9. $5\frac{4}{6}$
10. $2\frac{26}{42}$

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$6\frac{48}{55}$	$2\frac{26}{42}$	$4\frac{10}{20}$	$1\frac{22}{38}$	$5\frac{14}{28}$
$4\frac{4}{5}$	$4\frac{7}{8}$	$3\frac{3}{15}$	$5\frac{4}{6}$	$9\frac{3}{8}$

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