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

1) A water faucet leaked $2\frac{3}{5}$ liters of water over the course of $2\frac{2}{5}$ hours. How many liters would it have leaked after 9 hours?

2) A bike tire was $\frac{3}{5}$ 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 bag with $2\frac{1}{3}$ quarts of peanuts can make $3\frac{1}{5}$ jars of peanut butter. How many quarts of peanuts would you need to make 3 jars?

4) A carpenter goes through $2\frac{2}{6}$ boxes of nails finishing $2\frac{1}{2}$ rooves. How much would he use finishing 4 rooves?

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

6) A cookie recipe called for $2\frac{1}{4}$ cups of sugar for every $2\frac{1}{3}$ cups of flour. If you made a batch of cookies using 5 cup of flour, how many cups of sugar would you need?

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

8) It takes $2\frac{5}{6}$ gallons of water to fill up $3\frac{2}{6}$ containers. How much water would it take to fill 5 containers?

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

10) It takes $2\frac{1}{2}$ yards of thread to make $\frac{2}{6}$ of a sock. How many yards of thread will it take to make an entire sock?

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. $9\frac{45}{60}$
2. $3\frac{11}{18}$
3. $2\frac{9}{48}$
4. $3\frac{22}{30}$
5. $2\frac{0}{21}$
6. $4\frac{23}{28}$
7. $4\frac{1}{16}$
8. $4\frac{30}{120}$
9. $9\frac{3}{8}$
10. $7\frac{2}{4}$

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

Using Units Rates with Fractions

Name:

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

$9\frac{3}{8}$	$2\frac{9}{48}$	$3\frac{11}{18}$	$4\frac{1}{16}$	$7\frac{2}{4}$
$2\frac{0}{21}$	$9\frac{45}{60}$	$4\frac{30}{120}$	$3\frac{22}{30}$	$4\frac{23}{28}$

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