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

1) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $\frac{1}{3}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

2) A bag with $2\frac{4}{6}$ quarts of peanuts can make $2\frac{1}{2}$ jars of peanut butter. How many quarts of peanuts would you need to make 3 jars?

3) It takes $2\frac{1}{3}$ gallons of water to fill up $2\frac{2}{4}$ containers. How much water would it take to fill 5 containers?

4) A machine made $2\frac{2}{4}$ pencils in $\frac{2}{5}$ of a minute. It made pencils at a rate of how many per minute?

5) A bike tire was $\frac{3}{4}$ full. It took a small air compressor $3\frac{2}{6}$ seconds to fill it up. How long would it have taken to fill an empty tire?

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

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

8) A container with $2\frac{1}{3}$ gallons of weed killer can spray $3\frac{4}{5}$ lawns. How many gallons would it take to spray 7 lawns?

9) It takes $2\frac{2}{4}$ spoons of chocolate syrup to make $\frac{4}{6}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

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

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. $7\frac{1}{2}$
2. $3\frac{6}{30}$
3. $4\frac{20}{30}$
4. $6\frac{2}{8}$
5. $4\frac{8}{18}$
6. $4\frac{14}{21}$
7. $7\frac{4}{5}$
8. $4\frac{17}{57}$
9. $3\frac{12}{16}$
10. $6\frac{6}{15}$

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).

$4\frac{8}{18}$	$6\frac{6}{15}$	$4\frac{20}{30}$	$7\frac{1}{2}$	$4\frac{14}{21}$
$4\frac{17}{57}$	$6\frac{2}{8}$	$3\frac{12}{16}$	$3\frac{6}{30}$	$7\frac{4}{5}$

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6. _____
7. _____
8. _____
9. _____
10. _____

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