Using Units Rates with Fractions

Name:

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

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

2) A machine made $2\frac{3}{4}$ pencils in $\frac{5}{6}$ of a minute. It made pencils at a rate of how many per minute?

3) A container with $3\frac{5}{6}$ gallons of weed killer can spray $3\frac{1}{6}$ lawns. How many gallons would it take to spray 3 lawns?

4) A bike tire was $\frac{4}{5}$ 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?

5) A water faucet leaked $2\frac{1}{3}$ liters of water over the course of $3\frac{1}{6}$ hours. How many liters would it have leaked after 9 hours?

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

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

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

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

10) A bag with $3\frac{2}{6}$ quarts of peanuts can make $2\frac{3}{6}$ jars of peanut butter. How many quarts of peanuts would you need to make 7 jars?

Answers

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

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

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

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

2) A machine made $2\frac{3}{4}$ pencils in $\frac{5}{6}$ of a minute. It made pencils at a rate of how many per minute?

3) A container with $3\frac{5}{6}$ gallons of weed killer can spray $3\frac{1}{6}$ lawns. How many gallons would it take to spray 3 lawns?

4) A bike tire was $\frac{4}{5}$ 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?

5) A water faucet leaked $2\frac{1}{3}$ liters of water over the course of $3\frac{1}{6}$ hours. How many liters would it have leaked after 9 hours?

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

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

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

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

10) A bag with $3\frac{2}{6}$ quarts of peanuts can make $2\frac{3}{6}$ jars of peanut butter. How many quarts of peanuts would you need to make 7 jars?

Answers

1. $5\frac{5}{12}$
2. $3\frac{6}{20}$
3. $3\frac{72}{114}$
4. $2\frac{17}{24}$
5. $6\frac{36}{57}$
6. $3\frac{17}{21}$
7. $3\frac{9}{32}$
8. $5\frac{3}{6}$
9. $6\frac{2}{5}$
10. $9\frac{30}{90}$

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).

$3\frac{72}{114}$	$2\frac{17}{24}$	$3\frac{17}{21}$	$3\frac{6}{20}$	$5\frac{5}{12}$
$5\frac{3}{6}$	$3\frac{9}{32}$	$6\frac{2}{5}$	$6\frac{36}{57}$	$9\frac{30}{90}$

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

2) A machine made $2\frac{3}{4}$ pencils in $\frac{5}{6}$ of a minute. It made pencils at a rate of how many per minute?

3) A container with $3\frac{5}{6}$ gallons of weed killer can spray $3\frac{1}{6}$ lawns. How many gallons would it take to spray 3 lawns?

4) A bike tire was $\frac{4}{5}$ 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?

5) A water faucet leaked $2\frac{1}{3}$ liters of water over the course of $3\frac{1}{6}$ hours. How many liters would it have leaked after 9 hours?

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

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

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

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

10) A bag with $3\frac{2}{6}$ quarts of peanuts can make $2\frac{3}{6}$ jars of peanut butter. How many quarts of peanuts would you need to make 7 jars?

Answers

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

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