Answer Sheet

SELLING FRACTIONS

Mona is selling her pies at the school bake sale. She has 2 different types of pies, apple and lemon meringue. She has 4 of each pie.

prices

$12 for a whole Lemon Meringue Pie

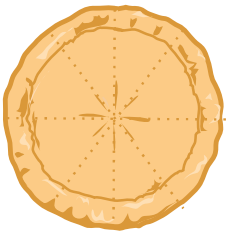
$7 1/2 Lemon Meringue Pie bushel of strawberries

$2 1/8 (a slice) Lemon Meringue Pie

$10 for a whole Apple Pie

$6 1/2 a Apple Pie

$1 1/8 (a slice) Apple Pie

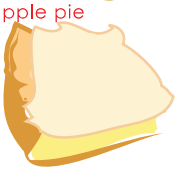


Carol loves Mona's pies. She buys a whole Lemon Meringue pie and a pie and a 3/4 of the Apple Pie. $12 = whole lemon meringue
$8 = 1/2 an apple pie+ 2 slices to make 3/4 of an apple pie

How much money did she pay? $20

Brett loves apples so he buys 5/8 of an apple pie. $7 = 1/2 apple pie + 1 slice to make 5/8 of an apple pie

How much money did he pay? $7



Lulu can only afford 2 slices of each pie. (2 x $2 lemon pie slice) + (2 x $1 apple pie slice)

How much money did she pay? $6

Timothy likes apples but his parents want the lemon meringue pie. To compromise he buys a whole apple pie for himself and 3/4 of the lemon meringue pie for his parents. $10 = whole apple pie
$11 = 1/2 an lemon meringue + 2 slices to make 3/4 of a lemon meringue pie

How much money did he pay? $21

In total how much money did Mona make? $54

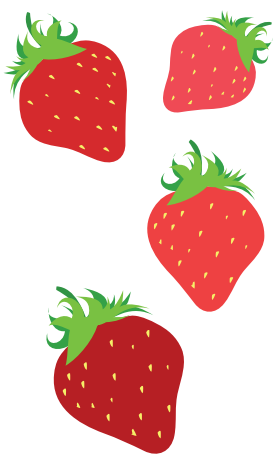
How many apple pies are left over? $1\frac{3}{8}$ or a whole pie and 3 slices

How many lemon meringue pies are left? 2 pies are left

Answer Sheet

STRAWBERRY FRACTIONS

Amy is selling her strawberries at her fruit stand in the local farmer's market. She starts the day with 11 ½ bushels of strawberries.



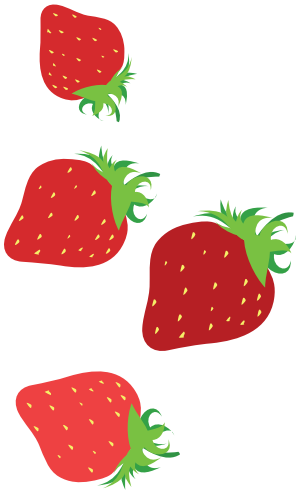
prices

$3 bushel of strawberries

$2 ½ bushel of strawberries

$1.25 ¼ bushel of strawberries

$.75 1/8 bushel of strawberries



Ellen needs 4 ¾ bushels for her bakery.

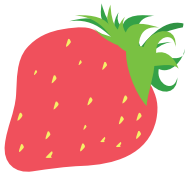
How many bushels are left? $6\frac{3}{4}$

How much money did she pay? $15.25

Billy came to buy 1 ¼ bushel.

How many bushels are left? $5\frac{1}{2}$

How much money did he pay? $4.25



Todd and his family came to buy $2\frac{3}{8}$ bushels.

How many bushels are left? $3\frac{1}{8}$

How much money did they pay? $8

Jack wants to buy ½ bushel but could only afford 3/8 of a bushel.

How many bushels does Amy have left? $2\frac{3}{4}$

How much money did he pay? $2

How many bushels were sold today? $8\frac{3}{4}$

How much money was made today? $29.50

Answer Sheet

Answer Key

Math
Fractions

Fraction Word Problems

Multiplying With Whole Numbers

When you multiply a fraction with a whole number, first you must write the multiplication equation.

Example: Tammy drank $\frac{2}{3}$ gallon of lemonade. Susie drank 3 times more. How much did Susie drink?

1. Write multiplication equation. $\frac{2}{3} \times 3$

2. Write the whole number as a fraction by putting 1 as the denominator.

$$3 = \frac{3}{1}$$ ← numerator, ← denominator

3. Multiply the numerator with the numerator, multiply the denominator with the denominator.

$$\frac{2}{3} \times \frac{3}{1} = \frac{2 \times 3}{3 \times 1} = \frac{6}{3}$$

Solve the word problems by multiplying fractions.

Rose ate $\frac{1}{8}$ of the soup in the pot. Kristi ate 4 times more that Rose did. How much soup did Kristi have?

1. Write multiplication equation.

$\frac{1}{8} \times 4$

2. Write the whole number as a fraction by putting 1 as the denominator.

$\frac{1}{8} \times \frac{4}{1}$

3. Multiply the numerator with numerator, multiply denominator with denominator.

$$\frac{1 \times 4}{8 \times 1} = \frac{4}{8}$$

Jenn has 20 skirts. She donated $\frac{4}{5}$ of them. How much did she give away?

Jenn gave away 16 shirts.

Answer Sheet

A nswer Key

Math Fractions

Fraction Word Problems

Multiplying Fractions with Fractions

When you multiply a fraction with a fraction in a word problem, first, you must write the multiplication equation.

Example: $\frac{1}{4}$ of Jasper's marbles are green. $\frac{2}{3}$ of his green marbles were given to him by his brother. What fraction of Jasper's marbles are green marbles given to him by his brother?

1. Write multiplication equation. $\frac{1}{4} \times \frac{2}{3}$

2. Multiply the numerator with numerator, multiply denominator with denominator.

$$\frac{1}{4} \times \frac{2}{3} \quad \begin{matrix} \leftarrow \textit{numerator} \\ \leftarrow \textit{denominator} \end{matrix} \quad = \quad \frac{1 \times 2}{4 \times 3} \quad = \quad \frac{2}{12}$$

Solve the word problems by multiplying fractions.

$\frac{2}{5}$ of Ashley's fruit are strawberries. $\frac{1}{4}$ of the strawberries are chocolate covered.
What fraction of Ashley's fruit are chocolate-covered strawberries?

1. Write the multiplication equation.

$$\frac{2}{5} \times \frac{1}{4}$$

2. Multiply the numerator with the numerator, multiply the denominator with the denominator.

$$\frac{2 \times 1}{5 \times 4} = \frac{2}{20}$$

$\frac{2}{3}$ of Mark's tea is white tea. $\frac{1}{2}$ of Mark's white tea was bought from England.
What fraction of Mark's tea came from England?

$\frac{1}{3}$ of Mark's tea is white tea from England.

Answer Sheet

Math
Fractions

Fraction Word Problems:
+ Adding with Unlike Denominators

When you add fractions with unlike denominators, first you need to make the denominators equal.

Example: $\frac{1}{3} + \frac{1}{2}$ ← *numerator* ← *denominator*

1. Multiply each fraction by the other fraction's denominator.

- Multiply both the numerator and the denominator of $\frac{1}{3}$ by 2. $\frac{1}{3} \times \frac{2}{2} = \frac{2}{6}$ ← *denominator*
  Notice that now the denominator is equal to 6.
  (Remember: any number over itself is equal to 1! Since we multiplied by the equivalent of 1, $\frac{1}{3}$ is equal to $\frac{2}{6}$.)
- Multiply both the numerator and the denominator of $\frac{1}{2}$ by 3. $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ ← *denominator*
  Notice that now the denominator is equal to 6.

2. Now you have $\frac{2}{6}$ and $\frac{3}{6}$. Add them together. $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

Solve the word problems by adding fractions.

Mr. Snail walked $\frac{1}{6}$ mile in the morning and $\frac{2}{7}$ mile in the evening. How many miles did he walk in total?

1. Multiply each fraction by the other fraction's denominator.

Multiply $\frac{1}{6}$ by $\frac{7}{7}$. $\frac{1}{6} \times \frac{7}{7} = \frac{7}{42}$

Multiply $\frac{2}{7}$ by $\frac{6}{6}$. $\frac{2}{7} \times \frac{6}{6} = \frac{12}{42}$

2. Now you get $\frac{7}{42}$ and $\frac{12}{42}$

3. Add them together. $\frac{7}{42} + \frac{12}{42} = \frac{19}{42}$

Read the question below and use another piece of paper to find the answer. Show your work.

Mr. Snail weighs $\frac{2}{5}$ pound and Ms. Butterfly weighs $\frac{3}{8}$ pound. How much do they weigh together?

Together, they weigh $\frac{31}{40}$ pound.

Answer Sheet

Math
Fractions

Fraction Word Problems:
− Subtracting with Unlike Denominators

When you subtract fractions with unlike denominators, first you need to make the denominators equal.

Example:

$\frac{3}{4} - \frac{1}{5}$ ← numerator ← denominator

1. Multiply each fraction by the other fraction's denominator.

- Multiply both the numerator and the denominator of $\frac{3}{4}$ by 5. $\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$ ← denominator
  Notice that now the denominator is equal to 20.
  (Remember: any number over itself is equal to 1! Since we multiplied by the equivalent of 1, $\frac{3}{4}$ is equal to $\frac{15}{20}$.)
- Multiply both the numerator and the denominator of $\frac{1}{5}$ by 4. $\frac{1}{5} \times \frac{4}{4} = \frac{4}{20}$ ← denominator
  Notice that now the denominator is equal to 20.

2. Now you have $\frac{15}{20}$ and $\frac{4}{20}$. Subtract them. $\frac{15}{20} - \frac{4}{20} = \frac{11}{20}$

Solve the word problems by subtracting fractions.

The puppy is $\frac{5}{6}$ of a foot tall and the kitten is $\frac{2}{5}$ of a foot tall. How much taller is the puppy than the kitten?

1. Multiply each fraction by the other fraction's denominator.

Multiply $\frac{5}{6}$ by $\frac{5}{5}$. $\frac{5}{6} \times \frac{5}{5} = \frac{25}{30}$

Multiply $\frac{2}{5}$ by $\frac{6}{6}$. $\frac{2}{5} \times \frac{6}{6} = \frac{12}{30}$

2. Now you have $\frac{25}{30}$ and $\frac{12}{30}$

3. Subtract them. $\frac{25}{30} - \frac{12}{30} = \frac{13}{30}$

Read the question below and use another piece of paper to find the answer. Show your work.

The puppy ate $\frac{3}{4}$ of a carton of milk and the kitten ate $\frac{5}{7}$ of a carton of milk.

How much more did the puppy eat? The puppy drank $\frac{1}{28}$ more milk than the kitten.