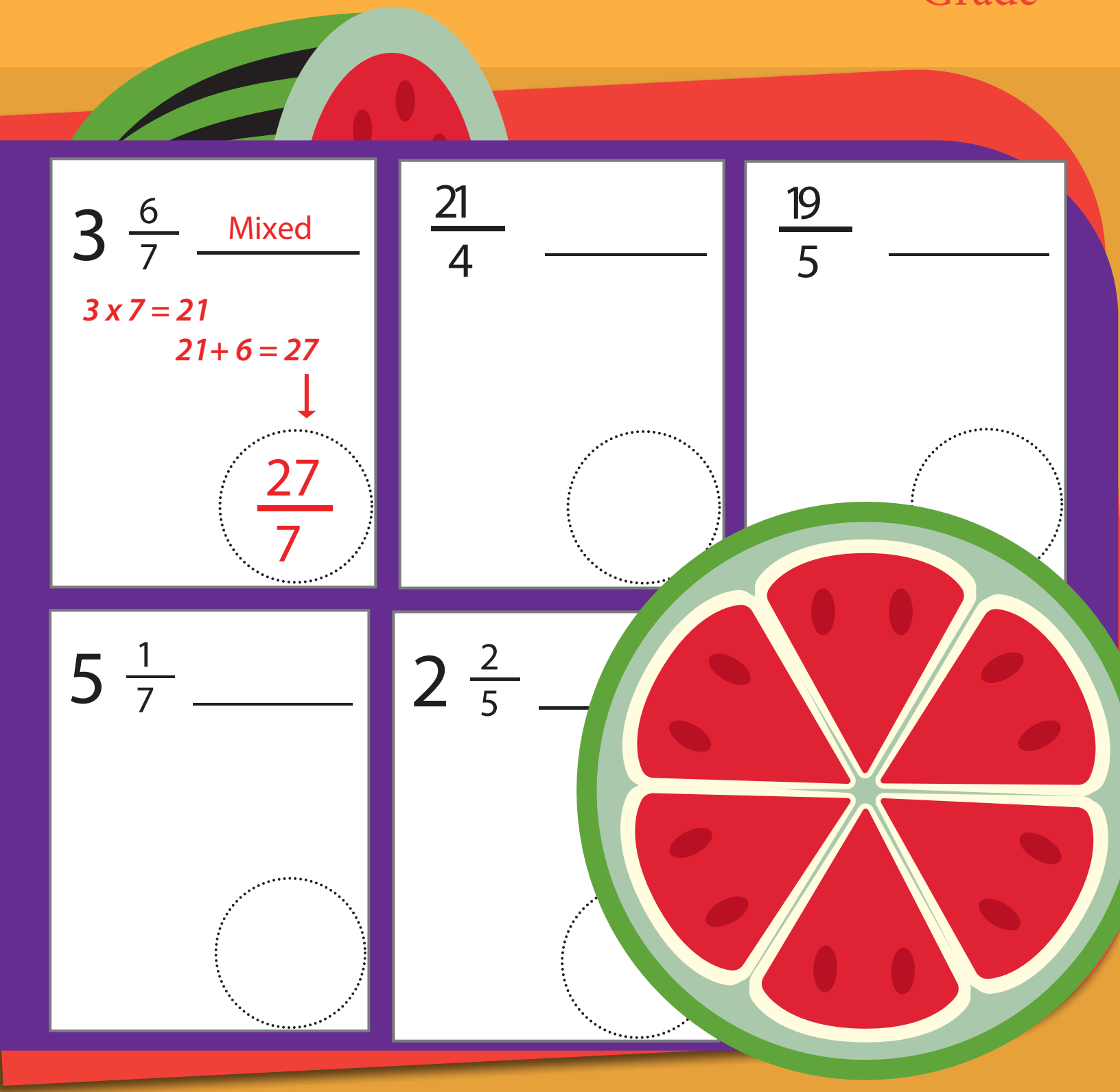
Fun with Fractions 5th Grade



$3\frac{6}{7}$ Mixed _____

$3 \times 7 = 21$

$21 + 6 = 27$

$\frac{27}{7}$

$\frac{21}{4}$ _____

$\frac{19}{5}$ _____

$5\frac{1}{7}$ _____

$2\frac{2}{5}$ _____

Table of Contents

Fun with Fractions

** Has an Answer Sheet*

Skills Practice

ADDING MIXED FRACTIONS

Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$1\frac{2}{5} + 3\frac{6}{7} = 5\frac{9}{35}$

Rewrite as improper fractions

$1\frac{2}{5} \rightarrow \frac{7}{5}$ (+ → 2 → 7; × 5) $\quad 3\frac{6}{7} \rightarrow \frac{27}{7}$ (+ → 6 → 27; × 7)

Find least common denominator

$\frac{7}{5} \times \frac{7}{7} + \frac{27}{7} \times \frac{5}{5}$

$\frac{49}{35} + \frac{135}{35} = \frac{184}{35} = 5\frac{9}{35}$

$3\frac{1}{4} + 4\frac{1}{2} =$ _____

$2\frac{5}{6} + 5\frac{4}{7} =$ _____

$2\frac{3}{5} + 6\frac{1}{4} =$ _____

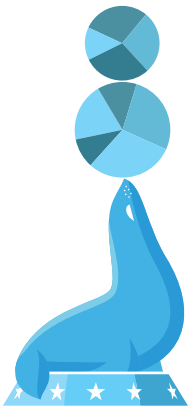
$4\frac{2}{3} + 4\frac{1}{6} =$ _____

$7\frac{3}{4} + 1\frac{1}{3} =$ _____

$3\frac{1}{2} + 3\frac{1}{5} =$ _____

Skills Practice

ADDING MIXED FRACTIONS



Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$3\frac{1}{6} + 2\frac{3}{5} = 5\frac{23}{30}$

Rewrite as improper fractions

$3\frac{1}{6} \rightarrow \frac{19}{6}$ (+ → 1 → 19; × 6) $+ 2\frac{3}{5} \rightarrow \frac{13}{5}$ (+ → 3 → 13; × 5)

Find least common denominator

$\frac{19}{6} \times \frac{5}{5} + \frac{13}{5} \times \frac{6}{6}$

$\frac{95}{30} + \frac{78}{30} = \frac{173}{30} = 5\frac{23}{30}$

$6\frac{3}{7} + 1\frac{2}{5} =$ _____

$1\frac{3}{4} + 6\frac{6}{7} =$ _____

$3\frac{4}{5} + 4\frac{1}{3} =$ _____

$2\frac{2}{7} + 3\frac{5}{6} =$ _____

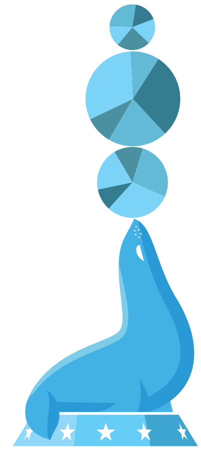
$6\frac{1}{2} + 4\frac{2}{3} =$ _____

$2\frac{4}{7} + 3\frac{2}{3} =$ _____

Skills Practice

ADDING MIXED FRACTIONS

3



Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$1\frac{2}{3} + 4\frac{1}{7} = \underline{5\frac{17}{21}}$

Rewrite as improper fractions

$1\frac{2}{3} \rightarrow 5 \qquad 4\frac{1}{7} \rightarrow 29$

Find least common denominator

$\frac{5}{3}\frac{\times 7}{\times 7} + \frac{29}{7}\frac{\times 3}{\times 3}$

$\frac{35}{21} + \frac{87}{21} = \frac{122}{21} = 5\frac{17}{21}$

$3\frac{3}{7} + 2\frac{1}{6} =$ ________

$3\frac{1}{4} + 4\frac{4}{5} =$ ________

$5\frac{2}{5} + 4\frac{1}{2} =$ ________

$2\frac{1}{3} + 6\frac{3}{5} =$ ________

$6\frac{3}{4} + 1\frac{6}{7} =$ ________

$2\frac{3}{7} + 2\frac{1}{6} =$ ________

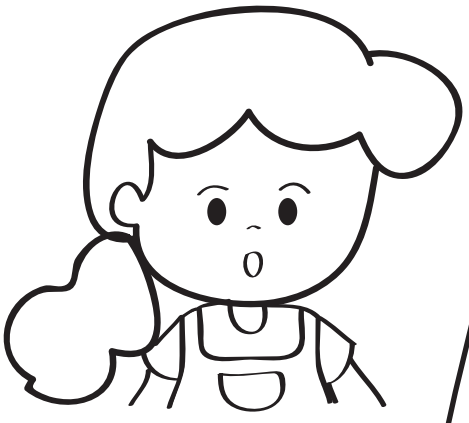
Cupcakes Challenge: Practice Fractions

Aunt Marie needs help figuring out how much of each ingredient she will need to buy in order to make this cupcake recipe. Can you help her?

Recipe			She has...		She needs...
All purpose flour	$4\frac{1}{3}$	cups	$\frac{2}{3}$	cup	
Sugar	$3\frac{3}{4}$	cups	$\frac{6}{8}$	cup	
Baking powder	4	teaspoons	$\frac{6}{5}$	teaspoons	
Milk	2	cups	$1\frac{1}{6}$	cups	
Vanilla	6	teaspoons	$2\frac{3}{6}$	teaspoons	
Eggs	2		0		

More challenge!

This recipe is for 12 people. If Aunt Marie wanted to cut the recipe in half, how much of each ingredient would it call for?



All purpose flour

Sugar

Baking powder

Milk

Vanilla

Eggs

Skills Practice 1

Mixed + Improper Fractions

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$\frac{42}{5}$ Improper $42 \div 5 = 8$ R2 $8\frac{2}{5}$	$\frac{25}{3}$ _____	$\frac{19}{6}$ _____
$4\frac{3}{7}$ _____	$2\frac{1}{3}$ _____	$\frac{11}{2}$ _____
$5\frac{1}{2}$ _____	$\frac{17}{3}$ _____	$6\frac{4}{5}$ _____

SKILLS PRACTICE 2

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

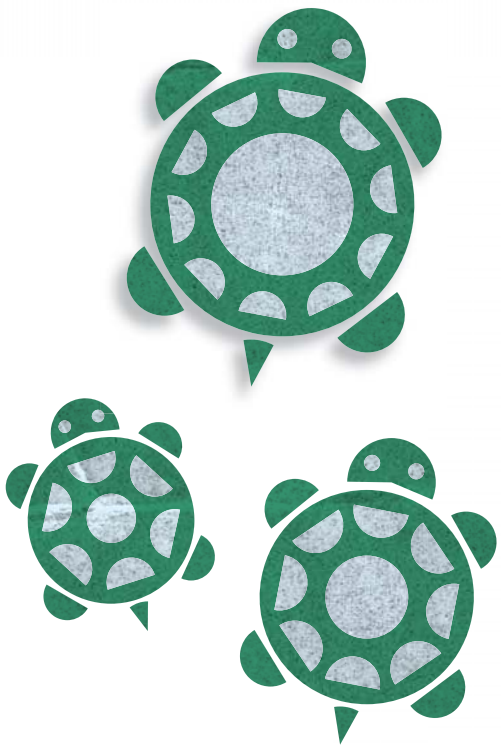
$3\frac{6}{7}$ Mixed 3 x 7 = 21 21 + 6 = 27 ↓ $\frac{27}{7}$	$\frac{21}{4}$ _____	$\frac{16}{3}$ _____
$5\frac{1}{7}$ _____	$2\frac{2}{5}$ _____	$\frac{33}{7}$ _____
$\frac{19}{5}$ _____	$3\frac{1}{6}$ _____	$2\frac{5}{6}$ _____

Skills Practice 3

Mixed + Improper Fractions

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$4\frac{5}{7}$ Mixed $7 \times 4 = 28$ $28 + 5 = 33$ $\frac{33}{7}$	$\frac{21}{5}$	$\frac{34}{5}$
$8\frac{1}{6}$	$6\frac{3}{5}$	$8\frac{1}{2}$
$6\frac{4}{7}$	$\frac{32}{5}$	$\frac{31}{4}$



Skills Practice 4

Mixed Fractions

Practice your fraction skills by rewriting the following improper fractions as mixed fractions. Be sure to show your work.

$\frac{20}{7}$ $20 \div 7 = 2$ R6 $2\ \frac{6}{7}$	$\frac{13}{6}$	$\frac{31}{7}$
$\frac{24}{7}$	$\frac{17}{2}$	$\frac{29}{3}$
$\frac{12}{5}$	$\frac{23}{6}$	$\frac{19}{4}$

SKILLS PRACTICE 5

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$\frac{32}{7}$ Improper $32 \div 7 = 4$ R4 $4\frac{4}{7}$	$4\frac{5}{6}$ _____	$\frac{34}{5}$ _____
$1\frac{3}{5}$ _____	$\frac{26}{5}$ _____	$8\frac{1}{3}$ _____
$\frac{11}{2}$ _____	$7\frac{2}{3}$ _____	$\frac{12}{7}$ _____

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

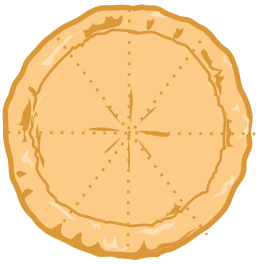
$7 1/2 Lemon Meringue Pie

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

$10 for a whole Apple Pie

$6 1/2 an Apple Pie

$1 1/8 (a slice) Apple Pie



Carol loves Mona's pies. She buys a whole Lemon Meringue pie and 3/4 of an Apple Pie.

How much money did she pay? _____

Brett loves apples so he buys 5/8 of an apple pie.

How much money did he pay? _____

Lulu can only afford 2 slices of each pie.

How much money did she pay? _____

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.

How much money did he pay? _____

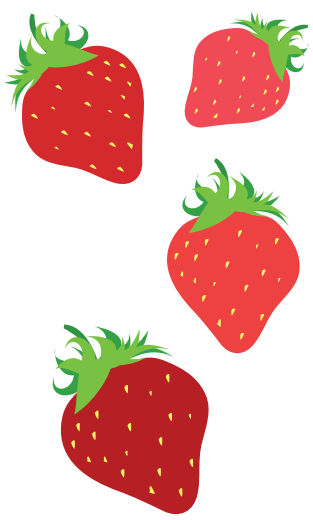
In total how much money did Mona make? _____

How many apple pies are left over? _____

How many lemon meringue pies are left? _____

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.



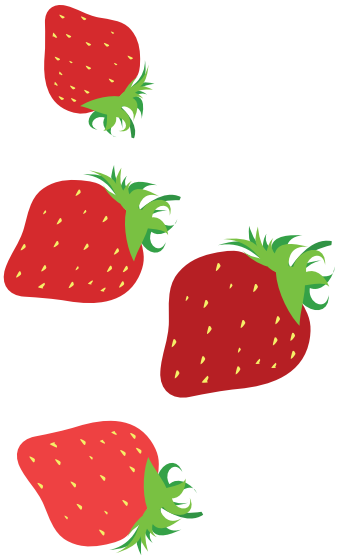
prices

$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.

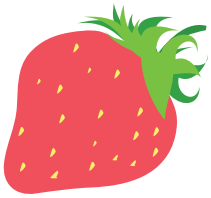
How many bushels are left? _____

How much money did she pay? _____

Billy came to buy 1 ¼ bushels.

How many bushels are left? _____

How much money did he pay? _____



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

How many bushels are left? _____

How much money did they pay? _____

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

How many bushels does Amy have left? _____

How much money did he pay? _____

How many bushels were sold today? _____

How much money was made today? _____

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.

$$3 = \frac{3}{1}$$ (3 ← numerator; 1 ← 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.

$$\frac{\square}{\square} \times \square$$

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

$$\frac{\square}{\square} \times \frac{\square}{\square}$$

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

$$\frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$$

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

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.

$$\frac{\square}{\square} \times \frac{\square}{\square}$$

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

$$\frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$$

$\frac{2}{3}$ 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?

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 $\frac{7}{7}$. $\frac{1}{6} \times \frac{7}{7} =$ ____ Multiply $\frac{2}{7}$ by $\frac{6}{6}$. $\frac{2}{7} \times \frac{6}{6} =$ ____

2. Now you get ____ and ____ 3. Add them together. ____ + ____ = ____

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?

Math
Fractions

Fraction Word Problems:
– Subtracting with Unlike Denominators

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

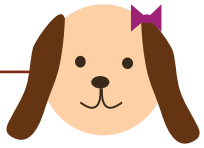
Example:

$\frac{3}{4} - \frac{1}{5}$ ← *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 $\frac{5}{5}$. $\frac{5}{6} \times \frac{5}{5} = \frac{\quad}{\quad}$

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

2. Now you have $\frac{\quad}{\quad}$ and $\frac{\quad}{\quad}$

3. Subtract them. $\frac{\quad}{\quad} - \frac{\quad}{\quad} = \frac{\quad}{\quad}$

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?

Great job!

_____

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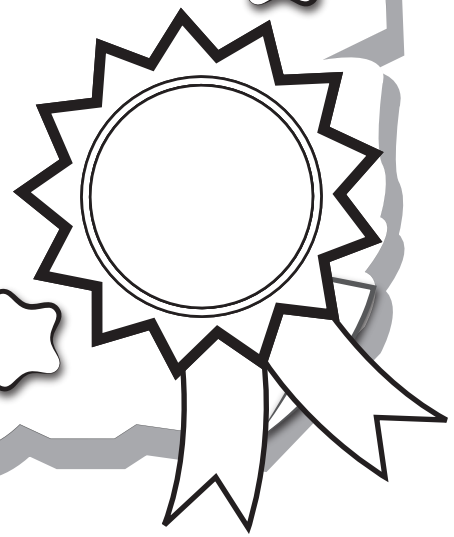


Answer Sheets

Fun with Fractions

Answer Sheet

Skills Practice

ADDING MIXED FRACTIONS

ANSWERS

Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$1\frac{2}{5} + 3\frac{6}{7} = 5\frac{9}{35}$

$1\frac{2}{5} \rightarrow \frac{7}{5} \times 7$ $+$ $3\frac{6}{7} \rightarrow \frac{27}{7} \times 5$ — Rewrite as improper fractions

$\frac{7}{5} \times 7$ $+$ $\frac{27}{7} \times 5$ — Find least common denominator

$\frac{49}{35} + \frac{135}{35} = \frac{184}{35} = 5\frac{9}{35}$

$3\frac{1}{4} + 4\frac{1}{2} = 7\frac{3}{4}$

$2\frac{5}{6} + 5\frac{4}{7} = 8\frac{17}{42}$

$2\frac{3}{5} + 6\frac{1}{4} = 8\frac{17}{20}$

$4\frac{2}{3} + 4\frac{1}{6} = 8\frac{5}{6}$

$7\frac{3}{4} + 1\frac{1}{3} = 9\frac{1}{12}$

$3\frac{1}{2} + 3\frac{1}{5} = 6\frac{7}{10}$

Answer Sheet

Skills Practice

ANSWERS

ADDING MIXED FRACTIONS

Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$3\frac{1}{6} + 2\frac{3}{5} = 5\frac{23}{30}$

Rewrite as improper fractions

$3\frac{1}{6} \rightarrow \frac{19}{6}$ (+1, ×6) $\quad 2\frac{3}{5} \rightarrow \frac{13}{5}$ (+3, ×5)

Find least common denominator

$\frac{19}{6} \times \frac{5}{5} + \frac{13}{5} \times \frac{6}{6}$

$\frac{95}{30} + \frac{78}{30} = \frac{173}{30} = 5\frac{23}{30}$

$6\frac{3}{7} + 1\frac{2}{5} == 7\frac{29}{35}$

$1\frac{3}{4} + 6\frac{6}{7} \quad 8\frac{17}{28}$

$3\frac{4}{5} + 4\frac{1}{3} == 8\frac{2}{15}$

$2\frac{2}{7} + 3\frac{5}{6} \quad 6\frac{5}{42}$

$6\frac{1}{2} + 4\frac{2}{3} == 11\frac{1}{6}$

$2\frac{4}{7} + 3\frac{2}{3} \quad 6\frac{5}{21}$

Skills Practice

ADDING MIXED FRACTIONS

3

ANSWERS

Practice your fraction arithmetic skills by adding the following mixed fractions. Be sure to show your work and simplify your answers.

$1\frac{2}{3} + 4\frac{1}{7} = 5\frac{17}{21}$

Rewrite as improper fractions

$1\frac{2}{3} \rightarrow \frac{5}{3}$ $\quad 4\frac{1}{7} \rightarrow \frac{29}{7}$

Find least common denominator

$\frac{5}{3} \times \frac{7}{7} + \frac{29}{7} \times \frac{3}{3}$

$\frac{35}{21} + \frac{87}{21} = \frac{122}{21} = 5\frac{17}{21}$

$3\frac{3}{7} + 2\frac{1}{6} = 5\frac{25}{42}$

$3\frac{1}{4} + 4\frac{4}{5} = 8\frac{1}{20}$

$5\frac{2}{5} + 4\frac{1}{2} = 9\frac{9}{10}$

$2\frac{1}{3} + 6\frac{3}{5} = 8\frac{14}{15}$

$6\frac{3}{4} + 1\frac{6}{7} = 8\frac{17}{28}$

$2\frac{3}{7} + 2\frac{1}{6} = 4\frac{25}{42}$

Answer Sheet

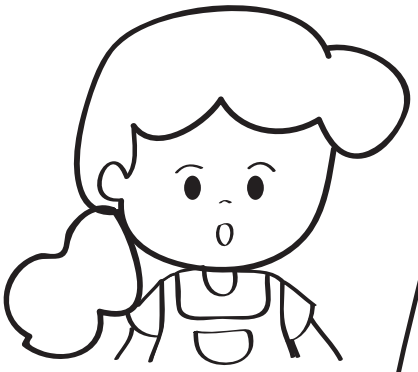
Cupcakes Challenge: Practice Fractions

Aunt Marie needs help figuring out how much of each ingredient she will need to buy in order to make this cupcake recipe. Can you help her?

Recipe			She has...		She needs...
All purpose flour	$4\frac{1}{3}$	cups	$\frac{2}{3}$	cup	$3\frac{2}{3}$ cup
Sugar	$3\frac{3}{4}$	cups	$\frac{6}{8}$	cup	3 cup
Baking powder	4	teaspoons	$\frac{6}{5}$	teaspoons	$2\frac{4}{5}$ teaspoons
Milk	2	cups	$1\frac{1}{6}$	cups	$\frac{5}{6}$ cups
Vanilla	6	teaspoons	$2\frac{3}{6}$	teaspoons	$3\frac{1}{2}$ teaspoons
Eggs	2		0		2 eggs

More challenge!

This recipe is for 12 people. If Aunt Marie wanted to cut the recipe in half, how much of each ingredient would it call for?



All purpose flour $2\frac{1}{6}$ cup

Sugar $1\frac{7}{8}$ cup

Baking powder 2 teaspoons

Milk 1 cup

Vanilla 3 teaspoons

Eggs 1 egg

Answer Sheet

SKILLS PRACTICE 1 ANSWERS

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$\frac{42}{5}$ Improper $42 \div 5 = 8$ R2 $8\frac{2}{5}$	$\frac{25}{3}$ Improper $8\frac{1}{3}$	$\frac{19}{6}$ Improper $3\frac{1}{6}$
$4\frac{3}{7}$ Mixed $\frac{31}{7}$	$2\frac{1}{3}$ Mixed $\frac{7}{3}$	$\frac{11}{2}$ Improper $5\frac{1}{2}$
$5\frac{1}{2}$ Mixed $\frac{11}{2}$	$\frac{17}{3}$ Improper $5\frac{2}{3}$	$6\frac{4}{5}$ Mixed $\frac{34}{5}$

Answer Sheet

SKILLS PRACTICE 2 ANSWERS

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

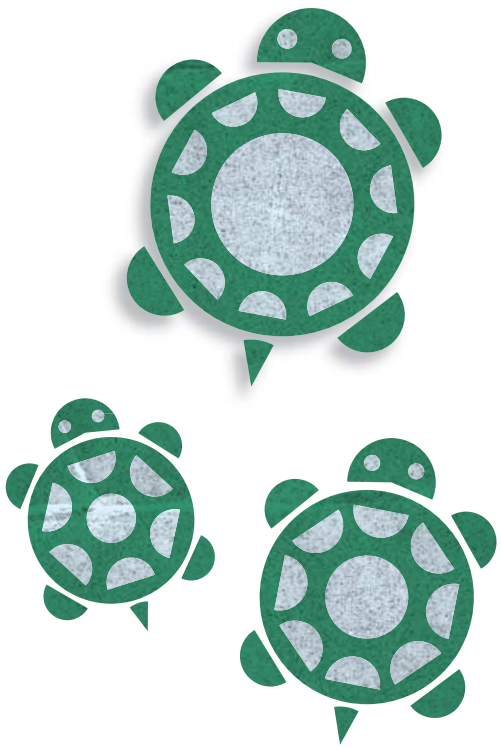
$3\frac{6}{7}$ Mixed 3 x 7 = 21 21 + 6 = 27 ↓ $\frac{27}{7}$	$\frac{21}{4}$ Improper $5\frac{1}{4}$	$\frac{16}{3}$ Improper $5\frac{1}{3}$
$5\frac{1}{7}$ Mixed $\frac{36}{7}$	$2\frac{2}{5}$ Mixed $\frac{12}{5}$	$\frac{33}{7}$ Improper $4\frac{5}{7}$
$\frac{19}{5}$ Improper $3\frac{4}{5}$	$3\frac{1}{6}$ Mixed $\frac{19}{6}$	$2\frac{5}{6}$ Mixed $\frac{17}{6}$

SKILLS PRACTICE 3 ANSWERS

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$4\frac{5}{7}$ Mixed $7 \times 4 = 28$ $28 + 5 = 33$ $\frac{33}{7}$	$\frac{21}{5}$ Improper $4\frac{1}{5}$	$\frac{34}{5}$ Improper $6\frac{4}{5}$
$8\frac{1}{6}$ Mixed $\frac{49}{6}$	$6\frac{3}{5}$ Mixed $\frac{33}{5}$	$8\frac{1}{2}$ Mixed $\frac{17}{2}$
$6\frac{4}{7}$ Mixed $\frac{46}{7}$	$\frac{32}{5}$ Improper $6\frac{2}{5}$	$\frac{31}{4}$ Improper $7\frac{3}{4}$



Answer Sheet

Skills Practice 4 — ANSWERS

Mixed Fractions

Practice your fraction skills by rewriting the following improper fractions as mixed fractions. Be sure to show your work.

$\frac{20}{7}$ $20 \div 7 = 2$ R6 $2\ \frac{6}{7}$	$\frac{13}{6}$ $2\ \frac{1}{6}$	$\frac{31}{7}$ $4\ \frac{3}{7}$
$\frac{24}{7}$ $3\ \frac{3}{7}$	$\frac{17}{2}$ $8\ \frac{1}{2}$	$\frac{29}{3}$ $9\ \frac{2}{3}$
$\frac{12}{5}$ $2\ \frac{2}{5}$	$\frac{23}{6}$ $3\ \frac{5}{6}$	$\frac{19}{4}$ $4\ \frac{3}{4}$

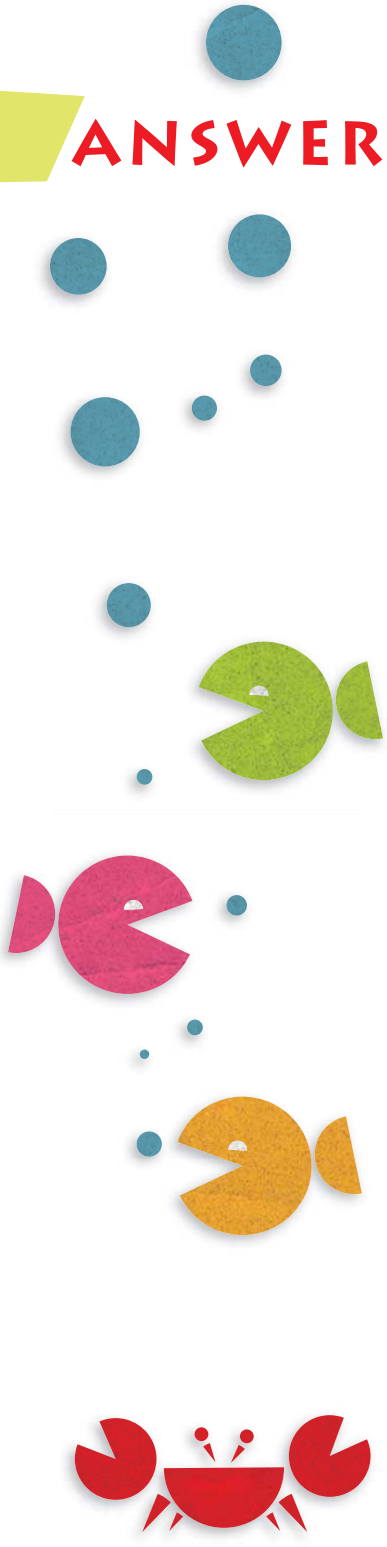
Answer Sheet

SKILLS PRACTICE 5 ANSWERS

MIXED + IMPROPER FRACTIONS

For each of the following fractions, give them the appropriate label and rewrite them in the alternate form. Show your work.

$\frac{32}{7}$ Improper $32 \div 7 = 4$ R4 $4\frac{4}{7}$	$4\frac{5}{6}$ Mixed $\frac{29}{6}$	$\frac{34}{5}$ Improper $6\frac{4}{5}$
$1\frac{3}{5}$ Mixed $\frac{8}{5}$	$\frac{26}{5}$ Improper $5\frac{1}{5}$	$8\frac{1}{3}$ Mixed $\frac{25}{3}$
$\frac{11}{2}$ Improper $5\frac{1}{2}$	$7\frac{2}{3}$ Mixed $\frac{23}{3}$	$\frac{12}{7}$ Improper $1\frac{5}{7}$



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

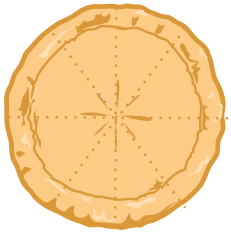
$7 1/2 Lemon Meringue Pie bushel of strawberries

$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.

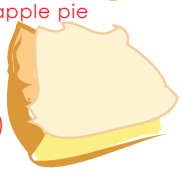
$12 = whole lemon meringue
$8 = 1/2 an apple pie+ 2 slices to make 3/4 of an apple pie

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.

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.

$$3 = \frac{3}{1}$$ (3 ← numerator; 1 ← 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.