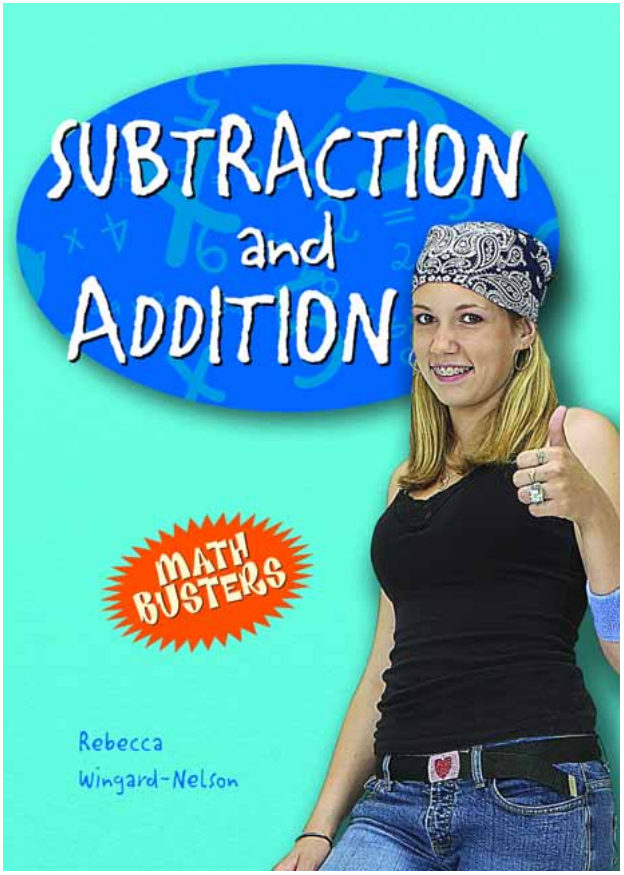
Math Busters Reproducible Worksheets

Reproducible Worksheets
for:

Subtraction and Addition



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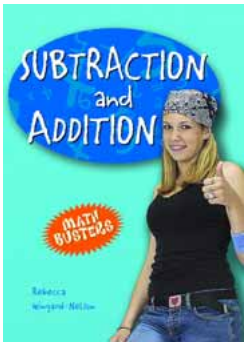

These worksheets practice math concepts explained in Subtraction and Addition (ISBN: 978-0-7660-2875-3), written by Rebecca Wingard-Nelson.

Math Busters Subtraction and Addition reproducible worksheets are designed to help teachers, parents, and tutors use the books from the Math Busters series in the classroom and the home. The answers to the problems are contained in the Answers section starting on page 59.

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Name _____ **Date** _____

Adding Whole Numbers

Find the number that will complete each one-digit addition fact.

a. $\begin{array}{r} 1 \\ +\ 0 \\ \hline \end{array}$	b. $\begin{array}{r} 6 \\ +\ 0 \\ \hline \end{array}$	c. $\begin{array}{r} 0 \\ +\ 5 \\ \hline \end{array}$	d. $\begin{array}{r} 4 \\ +\ 1 \\ \hline \end{array}$
e. $\begin{array}{r} 3 \\ +\ 2 \\ \hline \end{array}$	f. $\begin{array}{r} 0 \\ +\ 2 \\ \hline \end{array}$	g. $\begin{array}{r} 2 \\ +\ 0 \\ \hline \end{array}$	h. $\begin{array}{r} 5 \\ +\ 0 \\ \hline \end{array}$
i. $\begin{array}{r} 1 \\ +\ 2 \\ \hline \end{array}$	j. $\begin{array}{r} 6 \\ +\ 2 \\ \hline \end{array}$	k. $\begin{array}{r} 2 \\ +\ 3 \\ \hline \end{array}$	l. $\begin{array}{r} 1 \\ +\ 3 \\ \hline \end{array}$
m. $\begin{array}{r} 2 \\ +\ 6 \\ \hline \end{array}$	n. $\begin{array}{r} 5 \\ +\ 1 \\ \hline \end{array}$	o. $\begin{array}{r} 1 \\ +\ 7 \\ \hline \end{array}$	p. $\begin{array}{r} 9 \\ +\ 0 \\ \hline \end{array}$
q. $\begin{array}{r} 5 \\ +\ 4 \\ \hline \end{array}$	r. $\begin{array}{r} 2 \\ +\ 7 \\ \hline \end{array}$	s. $\begin{array}{r} 3 \\ +\ 3 \\ \hline \end{array}$	t. $\begin{array}{r} 5 \\ +\ 3 \\ \hline \end{array}$

Name _____ **Date** _____

Adding Whole Numbers

Find the number that will complete each one-digit addition fact.

a. 8 + 0 = _____ b. 1 + 6 = _____ c. 2 + 2 = _____

d. 3 + 5 = _____ e. 7 + 2 = _____ f. 0 + 0 = _____

g. 6 + 1 = _____ h. 2 + 5 = _____ i. 8 + 1 = _____

Write the addition fact that will solve each problem. Then write the answer in a complete sentence.

Example: James ate 3 corn chips. Then he ate 4 more. How many corn chips did James eat in all?

3 + 4 = 7. James ate 7 corn chips in all.

j. Caleb went to the principal's office 3 times in the morning. Then he went 1 more time in the afternoon. How many times did Caleb go to the principal's office?

_____

k. Autumn put 4 marbles in a jar. Then she put in 5 more. How many marbles did Autumn put in the jar all together?

_____

Name _____ **Date** _____

Regrouping Power: Addition

Find the number that will complete each one-digit addition fact.

a. 2 + 8	b. 6 + 9	c. 8 + 8	d. 9 + 1
e. 3 + 7	f. 7 + 3	g. 9 + 4	h. 5 + 8
i. 1 + 9	j. 6 + 6	k. 9 + 8	l. 8 + 6
m. 9 + 9	n. 7 + 8	o. 5 + 9	p. 8 + 4
q. 5 + 5	r. 7 + 4	s. 2 + 9	t. 8 + 5

Name _____ **Date** _____

Regrouping Power: Addition

Find the number that will complete each one-digit addition fact.

a. 8 + 7 = _____ b. 4 + 9 = _____ c. 7 + 5 = _____

d. 6 + 8 = _____ e. 4 + 6 = _____ f. 9 + 5 = _____

g. 9 + 3 = _____ h. 4 + 7 = _____ i. 8 + 2 = _____

Write the addition fact that will solve each problem. Then write the answer in a complete sentence.

Example: There were 8 turtles floating on a log and 9 more turtles lying on the shore. How many turtles were there in all?

8 + 9 = 17. There were 17 turtles in all.

j. Jessica worked 6 hours one day and 4 hours the next day. How many hours did Jessica work?

_____

k. Bob and Mary went fishing. Bob caught 7 fish. Mary also caught 7 fish. Together, how many fish did they catch?

_____

Name _____ **Date** _____

Adding Larger Numbers

Find the sum.

Example: Add 52 + 23. *Step 1: Add ones.* $\begin{array}{r} 52 \\ +\ 23 \\ \hline 5 \end{array}$ *Step 2: Add tens* $\begin{array}{r} 52 \\ +\ 23 \\ \hline 75 \end{array}$

a. 27 + 31

b. 46 + 32

c. 81 + 18

d. 20 + 31

e. 56 + 22

f. 15 + 1

g. 49 + 30

h. 62 + 37

i. $\begin{array}{r} 12 \\ +\ 72 \\ \hline \end{array}$

j. $\begin{array}{r} 35 \\ +\ 34 \\ \hline \end{array}$

k. $\begin{array}{r} 26 \\ +\ 3 \\ \hline \end{array}$

l. $\begin{array}{r} 13 \\ +\ 24 \\ \hline \end{array}$

m. $\begin{array}{r} 615 \\ +\ 323 \\ \hline \end{array}$

n. $\begin{array}{r} 702 \\ +\ 106 \\ \hline \end{array}$

o. $\begin{array}{r} 144 \\ +\ 15 \\ \hline \end{array}$

p. $\begin{array}{r} 611 \\ +\ 276 \\ \hline \end{array}$

Name _____ **Date** _____

Adding Larger Numbers

Find the sum.

a. $\begin{array}{r} 324 \\ +\ 21 \\ \hline \end{array}$ b. $\begin{array}{r} 645 \\ +\ 24 \\ \hline \end{array}$ c. $\begin{array}{r} 243 \\ +\ 452 \\ \hline \end{array}$ d. $\begin{array}{r} 103 \\ +\ 204 \\ \hline \end{array}$

e. $\begin{array}{r} 2011 \\ +\ 1924 \\ \hline \end{array}$ f. $\begin{array}{r} 7302 \\ +\ 460 \\ \hline \end{array}$ g. $\begin{array}{r} 6514 \\ +\ 2413 \\ \hline \end{array}$ h. $\begin{array}{r} 1321 \\ +\ 6048 \\ \hline \end{array}$

Write an addition equation to solve each problem. Then write the answer in a complete sentence.

Example: One tour boat can carry 42 passengers. Another can carry 36. How many people can tour on both boats?

42 + 36 = 78. 78 people can tour on both boats.

i. The seventh-graders read 126 books in September and 313 books in October. How many books did they read in all?

_____

j. The Colts had 32 points, then they scored another 7 points. How many points did they have?

_____

Name _____ **Date** _____

Multi-Digit Regrouping: Addition

Find the sum. Regroup as needed.

Example: $\begin{array}{r} 85 \\ +\ 37 \\ \hline \end{array}$ *Step 1: Add ones. Regroup.* $\begin{array}{r} {\scriptstyle 1} \\ 85 \\ +\ 37 \\ \hline 2 \end{array}$ *Step 2: Add tens.* $\begin{array}{r} 85 \\ +\ 37 \\ \hline 122 \end{array}$

a. $\begin{array}{r} 38 \\ +\ 24 \\ \hline \end{array}$ b. $\begin{array}{r} 52 \\ +\ 39 \\ \hline \end{array}$ c. $\begin{array}{r} 64 \\ +\ 6 \\ \hline \end{array}$ d. $\begin{array}{r} 15 \\ +\ 15 \\ \hline \end{array}$

e. $\begin{array}{r} 19 \\ +\ 3 \\ \hline \end{array}$ f. $\begin{array}{r} 55 \\ +\ 8 \\ \hline \end{array}$ g. $\begin{array}{r} 28 \\ +\ 35 \\ \hline \end{array}$ h. $\begin{array}{r} 25 \\ +\ 76 \\ \hline \end{array}$

i. $\begin{array}{r} 416 \\ +\ 35 \\ \hline \end{array}$ j. $\begin{array}{r} 149 \\ +\ 57 \\ \hline \end{array}$ k. $\begin{array}{r} 255 \\ +\ 307 \\ \hline \end{array}$ l. $\begin{array}{r} 729 \\ +\ 422 \\ \hline \end{array}$

m. $\begin{array}{r} 865 \\ +\ 146 \\ \hline \end{array}$ n. $\begin{array}{r} 4251 \\ +\ 757 \\ \hline \end{array}$ o. $\begin{array}{r} 6224 \\ +\ 839 \\ \hline \end{array}$ p. $\begin{array}{r} 7048 \\ +\ 6361 \\ \hline \end{array}$

Name _____ **Date** _____

Multi-Digit Regrouping: Addition

Find the sum. Regroup as needed.

Example: Add 48 + 46. *Step 1: Add ones. Regroup.*

$$\begin{array}{r} {\scriptstyle 1} \\ 48 \\ +\ 46 \\ \hline 4 \end{array}$$

Step 2: Add tens.

$$\begin{array}{r} {\scriptstyle 1} \\ 48 \\ +\ 46 \\ \hline 94 \end{array}$$

a. $\begin{array}{r} 64 \\ +\ 36 \\ \hline \end{array}$ b. $\begin{array}{r} 265 \\ +\ 97 \\ \hline \end{array}$ c. $\begin{array}{r} 654 \\ +\ 39 \\ \hline \end{array}$ d. $\begin{array}{r} 215 \\ +\ 737 \\ \hline \end{array}$

e. $\begin{array}{r} 582 \\ +\ 237 \\ \hline \end{array}$ f. $\begin{array}{r} 941 \\ +\ 521 \\ \hline \end{array}$ g. $\begin{array}{r} 8216 \\ +\ 695 \\ \hline \end{array}$ h. $\begin{array}{r} 7447 \\ +\ 7447 \\ \hline \end{array}$

Write an addition equation to solve each problem. Then write the answer in a complete sentence.

i. If each year has 365 days, how many days are there in two years?

j. Madeline sold 83 candy bars one week and 59 the next. How many candy bars did she sell over the two weeks?

Name _____ **Date** _____

Addition Properties

The Commutative Property: Changing the order of the addends does not change the sum.

Add each set of numbers to test the commutative property.

a. 5 + 2 = _____
2 + 5 = _____

b. 7 + 1 = _____
1 + 7 = _____

c. 8 + 9 = _____
9 + 8 = _____

d.
$$\begin{array}{r} 22 \\ +\ 36 \\ \hline \end{array} \qquad \begin{array}{r} 36 \\ +\ 22 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 16 \\ +\ 54 \\ \hline \end{array} \qquad \begin{array}{r} 54 \\ +\ 16 \\ \hline \end{array}$$

The Associative Property: Changing the grouping of the addends does not change the sum.

Add each set of numbers to test the associative property. Add the numbers inside the parentheses first.

f. (6 + 3) + 1 = _____
6 + (3 + 1) = _____

g. (5 + 2) + 6 = _____
5 + (2 + 6) = _____

h. (20 + 6) + 10 = _____
20 + (6 + 10) = _____

i. (8 + 7) + 3 = _____
8 + (7 + 3) = _____

Name _____ **Date** _____

Addition Properties

The Zero Property: The sum of any number and zero is the original number.

a. 6 + 0 = _____ b. 0 + 8 = _____ c. 12 + 0 = _____

d. 23 + 0 = _____ e. 0 + 52 = _____ f. 415 + 0 = _____

g. $\begin{array}{r} 9 \\ +\ 0 \\ \hline \end{array}$ h. $\begin{array}{r} 0 \\ +\ 4 \\ \hline \end{array}$ i. $\begin{array}{r} 37 \\ +\ 0 \\ \hline \end{array}$ j. $\begin{array}{r} 927 \\ +\ 0 \\ \hline \end{array}$

Name the property illustrated.

k. 12 + 7 = 19
7 + 12 = 19 _____

l. 14 + 0 = 14 _____

m. (2 + 6) + 3 = 11
2 + (6 + 3) = 11 _____

Name _____ **Date** _____

Subtracting Whole Numbers

Find the number that will complete each one-digit subtraction fact.

a. $\begin{array}{r} 1 \\ -\ 0 \\ \hline \end{array}$ b. $\begin{array}{r} 6 \\ -\ 0 \\ \hline \end{array}$ c. $\begin{array}{r} 5 \\ -\ 1 \\ \hline \end{array}$ d. $\begin{array}{r} 4 \\ -\ 2 \\ \hline \end{array}$

e. $\begin{array}{r} 3 \\ -\ 3 \\ \hline \end{array}$ f. $\begin{array}{r} 9 \\ -\ 4 \\ \hline \end{array}$ g. $\begin{array}{r} 6 \\ -\ 3 \\ \hline \end{array}$ h. $\begin{array}{r} 8 \\ -\ 7 \\ \hline \end{array}$

i. $\begin{array}{r} 7 \\ -\ 4 \\ \hline \end{array}$ j. $\begin{array}{r} 8 \\ -\ 5 \\ \hline \end{array}$ k. $\begin{array}{r} 2 \\ -\ 0 \\ \hline \end{array}$ l. $\begin{array}{r} 5 \\ -\ 5 \\ \hline \end{array}$

m. $\begin{array}{r} 6 \\ -\ 5 \\ \hline \end{array}$ n. $\begin{array}{r} 8 \\ -\ 8 \\ \hline \end{array}$ o. $\begin{array}{r} 0 \\ -\ 0 \\ \hline \end{array}$ p. $\begin{array}{r} 9 \\ -\ 2 \\ \hline \end{array}$

q. $\begin{array}{r} 9 \\ -\ 7 \\ \hline \end{array}$ r. $\begin{array}{r} 3 \\ -\ 1 \\ \hline \end{array}$ s. $\begin{array}{r} 7 \\ -\ 2 \\ \hline \end{array}$ t. $\begin{array}{r} 4 \\ -\ 0 \\ \hline \end{array}$

Name _____ **Date** _____

Subtracting Whole Numbers

Find the number that will complete each one-digit subtraction fact.

a. 8 – 0 = _____ b. 1 – 1 = _____ c. 9 – 1 = _____

d. 5 – 4 = _____ e. 8 – 6 = _____ f. 9 – 9 = _____

g. 6 – 2 = _____ h. 7 – 1 = _____ i. 8 – 4 = _____

Write the subtraction fact that will solve each problem. Then write the answer in a complete sentence.

Example: Bill took 4 cookies for lunch. He ate 1 cookie and gave the rest away. How many cookies did he give away?

4 – 1 = 3. Bill gave away 3 cookies.

j. Shawna has 7 pencils. 3 of the pencils are green. The rest are blue. How many blue pencils does she have?

k. Meghan's cat had 9 kittens. None of the kittens are white. How many of the kittens are not white?

Name _____ **Date** _____

Inverse Operations

Complete each fact, then list the three other related addition and subtraction facts.

Example: 4 + 5

4 + 5 = 9 9 – 5 = 4
5 + 4 = 9 9 – 4 = 5

a. 6 + 1

b. 0 + 5

c. 5 – 3

d. 7 – 5

Name _____ **Date** _____

Inverse Operations

Solve each problem. Then use the inverse operation to check.

Example: 8 – 5

$$\begin{array}{r} 8 \\ -\,5 \\ \hline 3 \end{array}$$

Check:

$$\begin{array}{r} 3 \\ +\,5 \\ \hline 8 \end{array}$$

a. 7 – 0

b. 9 – 8

c. 6 – 4

d. 3 + 4

e. 9 – 3

f. 5 + 1

Name two reasons to use subtraction.

Name _____ **Date** _____

Subtracting Larger Numbers

Find the difference.

Example: Subtract 64 – 21.

Step 1: Subtract ones.

$$\begin{array}{r} 64 \\ -\ 21 \\ \hline 3 \end{array}$$

Step 2: Subtract tens.

$$\begin{array}{r} 64 \\ -\ 21 \\ \hline 43 \end{array}$$

a. 36 – 11 b. 56 – 32 c. 70 – 20 d. 98 – 66

e. 14 – 3 f. 25 – 14 g. 49 – 18 h. 67 – 30

i. $\begin{array}{r} 72 \\ -\ 21 \\ \hline \end{array}$ j. $\begin{array}{r} 35 \\ -\ 34 \\ \hline \end{array}$ k. $\begin{array}{r} 16 \\ -\ 6 \\ \hline \end{array}$ l. $\begin{array}{r} 29 \\ -\ 13 \\ \hline \end{array}$

m. $\begin{array}{r} 608 \\ -\ 203 \\ \hline \end{array}$ n. $\begin{array}{r} 457 \\ -\ 216 \\ \hline \end{array}$ o. $\begin{array}{r} 872 \\ -\ 21 \\ \hline \end{array}$ p. $\begin{array}{r} 116 \\ -\ 105 \\ \hline \end{array}$

Name _____ Date _____

Subtracting Larger Numbers

Find the difference.

a. 419 − 10

b. 723 − 22

c. 651 − 421

d. 708 − 204

e. 6512 − 1411

f. 8528 − 127

g. 6697 − 2534

h. 1892 − 200

Write a subtraction equation to solve each problem. Then write the answer in a complete sentence.

Example: This year, 2,155 people went to the school play. The school concert was attended by 1,130 people. How many more people went to the play?

2155 – 1130 = 1025. There were 1,025 more people at the play.

i. Ben scored 627 points playing the snake game on his cell phone. Will scored 515 points. How many more points did Ben score?

_____

j. Marci needs $938 for a new computer. She has saved $912. How much more money does she need?

_____

Name _____ **Date** _____

Regrouping Power: Subtraction

Regroup to find the difference.

Example: 80 – 23

Step 1: Regroup.
$$\begin{array}{r} {\scriptstyle 7\ 10} \\ \not{8}\not{0} \\ -\ 23 \\ \hline \end{array}$$

Step 2: Subtract ones.
$$\begin{array}{r} {\scriptstyle 7\ 10} \\ \not{8}\not{0} \\ -\ 23 \\ \hline 7 \end{array}$$

Step 2: Subtract tens.
$$\begin{array}{r} {\scriptstyle 7\ 10} \\ \not{8}\not{0} \\ -\ 23 \\ \hline 57 \end{array}$$

a. $\begin{array}{r} 23 \\ -\ 9 \\ \hline \end{array}$ b. $\begin{array}{r} 16 \\ -\ 7 \\ \hline \end{array}$ c. $\begin{array}{r} 20 \\ -\ 8 \\ \hline \end{array}$ d. $\begin{array}{r} 82 \\ -\ 4 \\ \hline \end{array}$

e. $\begin{array}{r} 13 \\ -\ 5 \\ \hline \end{array}$ f. $\begin{array}{r} 22 \\ -\ 4 \\ \hline \end{array}$ g. $\begin{array}{r} 54 \\ -\ 7 \\ \hline \end{array}$ h. $\begin{array}{r} 15 \\ -\ 8 \\ \hline \end{array}$

i. $\begin{array}{r} 11 \\ -\ 9 \\ \hline \end{array}$ j. $\begin{array}{r} 26 \\ -\ 17 \\ \hline \end{array}$ k. $\begin{array}{r} 35 \\ -\ 19 \\ \hline \end{array}$ l. $\begin{array}{r} 62 \\ -\ 27 \\ \hline \end{array}$

m. $\begin{array}{r} 40 \\ -\ 27 \\ \hline \end{array}$ n. $\begin{array}{r} 67 \\ -\ 8 \\ \hline \end{array}$ o. $\begin{array}{r} 13 \\ -\ 6 \\ \hline \end{array}$ p. $\begin{array}{r} 64 \\ -\ 15 \\ \hline \end{array}$

Name _____ **Date** _____

Regrouping Power: Subtraction

Regroup to find the difference.

a. 16 – 8 = _____ b. 36 – 9 = _____ c. 32 – 7 = _____

d. 21 – 13 = _____ e. 50 – 6 = _____ f. 83 – 5 = _____

g. 41 – 34 = _____ h. 44 – 15 = _____ i. 25 – 15 = _____

Write the subtraction equation that will solve each problem. Then write the answer in a complete sentence.

Example: Jeremy started with 32 bricks. He used 15 bricks. How many are left?

32 – 15 = 17. Jeremy has 17 bricks left.

j. Michelle is 56 inches tall. Kara is 47 inches tall. How much taller than Kara is Michelle?

k. Francine had $41. She spent $25 at the football game. How much money does she have left?

Name _____ **Date** _____

Multi-Digit Regrouping: Subtraction

Find the difference. Regroup as needed.

Example: 230 – 47

Step 1: Regroup. Subtract ones.

$$\begin{array}{r} {}^{2}\not{2}{}^{10}\not{3}\not{0} \\ -\ 47 \\ \hline 3 \end{array}$$

Step 2: Regroup. Subtract tens.

$$\begin{array}{r} {}^{1}\not{2}{}^{12}\not{2}{}^{10}\not{3}\not{0} \\ -\ 47 \\ \hline 83 \end{array}$$

Step 3: Subtract hundreds.

$$\begin{array}{r} {}^{1}\not{2}{}^{12}\not{2}{}^{10}\not{3}\not{0} \\ -\ 47 \\ \hline 183 \end{array}$$

a. $\begin{array}{r} 324 \\ -\ 99 \\ \hline \end{array}$ b. $\begin{array}{r} 446 \\ -\ 257 \\ \hline \end{array}$ c. $\begin{array}{r} 512 \\ -\ 27 \\ \hline \end{array}$ d. $\begin{array}{r} 824 \\ -\ 430 \\ \hline \end{array}$

e. $\begin{array}{r} 720 \\ -\ 573 \\ \hline \end{array}$ f. $\begin{array}{r} 918 \\ -\ 598 \\ \hline \end{array}$ g. $\begin{array}{r} 600 \\ -\ 402 \\ \hline \end{array}$ h. $\begin{array}{r} 707 \\ -\ 43 \\ \hline \end{array}$

i. $\begin{array}{r} 2789 \\ -\ 826 \\ \hline \end{array}$ j. $\begin{array}{r} 5657 \\ -\ 2848 \\ \hline \end{array}$ k. $\begin{array}{r} 6671 \\ -\ 292 \\ \hline \end{array}$ l. $\begin{array}{r} 4000 \\ -\ 1905 \\ \hline \end{array}$

Name _____ **Date** _____

Multi-Digit Regrouping: Subtraction

Find the difference. Regroup as needed.

a. 42,434
− 41,056

b. 73,623
− 55,843

c. 22,641
− 3,049

d. 6,804
− 705

e. 20,000
− 7,266

f. 803,241
− 62,195

Write a subtraction equation to solve each problem. Write your answer in a complete sentence.

g. Chef Pierre made 2,500 servings of bread. There were 1,768 servings of bread used. How many servings were left?

_____

h. One year in a city, there were 8,696 restaurants. The following year, there were 8,943 restaurants. How many more restaurants were there in the second year?

_____

Name _____ **Date** _____

Mental Math Power: Addition

Use mental math to add.

a. 28 + 10 = _____ b. 28 + 9 = _____ c. 33 + 10 = _____

d. 33 + 9 = _____ e. 14 + 10 = _____ f. 14 + 9 = _____

g. 86 + 9 = _____ h. 95 + 9 = _____ i. 67 + 9 = _____

j. 56 + 9 = _____ k. 102 + 9 = _____ l. 31 + 9 = _____

m. 365 + 100 = _____ n. 365 + 99 = _____

o. 821 + 100 = _____ p. 821 + 99 = _____

q. 536 + 100 = _____ r. 536 + 99 = _____

s. 642 + 99 = _____ t. 437 + 99 = _____

u. 329 + 99 = _____ v. 745 + 99 = _____

Name _____ **Date** _____

Mental Math Power: Addition

Add mentally by first making groups of 10.

Example: 9 + 3 + 7 + 1 + 2

10 + 10 + 2 = 22

a. 4 + 3 + 6 + 7 = _____

b. 8 + 2 + 6 = _____

c. 8 + 9 + 1 = _____

d. 5 + 6 + 4 + 5 + 3 = _____

Use mental math to add.

e. 27 + 23 = _____

f. 416 + 30 = _____

g. 300 + 268 = _____

h. 2,000 + 2,000 = _____

i. 19 + 45 = _____

j. 65 + 35 = _____

k. 50 + 125 = _____

l. 1,200 + 400 = _____

m. 802 + 151 = _____

n. 3,421 + 999 = _____

Name _____ **Date** _____

Mental Math Power: Subtraction

Use mental math to subtract.

a. 43 – 10 = _____ b. 43 – 9 = _____ c. 56 – 10 = _____

d. 56 – 9 = _____ e. 24 – 10 = _____ f. 24 – 9 = _____

g. 19 – 9 = _____ h. 25 – 9 = _____ i. 118 – 9 = _____

j. 82 – 9 = _____ k. 61 – 9 = _____ l. 90 – 9 = _____

m. 451 – 100 = _____ n. 451 – 99 = _____

o. 867 – 100 = _____ p. 867 – 99 = _____

q. 124 – 100 = _____ r. 124 – 99 = _____

s. 908 – 99 = _____ t. 416 – 99 = _____

u. 258 – 99 = _____ v. 700 – 99 = _____

Name _____ **Date** _____

Mental Math Power: Subtraction

Subtract mentally by counting up.

Example: 400 – 298

Think: From 298 to 300 is 2.
Think: From 300 to 400 is 100 more.
Think: 100 + 2 = 102, so
400 – 298 = 102

a. 250 – 198 = _____

b. 500 – 125 = _____

c. 600 – 546 = _____

d. 320 – 297 = _____

Use mental math to subtract.

e. 474 – 74 = _____

f. 627 – 28 = _____

g. 400 – 268 = _____

h. 4,256 – 4,256 = _____

i. 352 – 297 = _____

j. 65 – 35 = _____

k. 150 – 125 = _____

l. 720 – 300 = _____

m. 7,263 – 999 = _____

n. 807 – 780 = _____

Name _____ **Date** _____

Estimation Power: Addition

Use rounding to estimate each sum.

Example: $\begin{array}{r} 27 \\ +\ 52 \end{array}$ *Step 1: Round each addend to the greatest place value, tens.* $\begin{array}{r} 27 \rightarrow 30 \\ +\ 52 \rightarrow +\ 50 \end{array}$ *Step 2: Add.* $\begin{array}{r} 30 \\ +\ 50 \\ \hline 80 \end{array}$

27 + 52 is about 80.

a. $\begin{array}{r} 48 \rightarrow 50 \\ +\ 34 \rightarrow +\ 30 \end{array}$

b. $\begin{array}{r} 19 \rightarrow \\ +\ 9 \rightarrow \end{array}$

c. $\begin{array}{r} 81 \rightarrow \\ +\ 64 \rightarrow \end{array}$

d. $\begin{array}{r} 97 \\ +\ 97 \end{array}$

e. $\begin{array}{r} 64 \\ +\ 88 \end{array}$

f. $\begin{array}{r} 15 \\ +\ 33 \end{array}$

g. $\begin{array}{r} 176 \\ +\ 238 \end{array}$

h. $\begin{array}{r} 592 \\ +\ 449 \end{array}$

i. $\begin{array}{r} 212 \\ +\ 630 \end{array}$

j. $\begin{array}{r} 614 \\ +\ 39 \end{array}$

k. $\begin{array}{r} 1268 \\ +\ 508 \end{array}$

l. $\begin{array}{r} 490 \\ +\ 58 \end{array}$

m. $\begin{array}{r} 92{,}452 \\ +\ 61{,}307 \end{array}$

n. $\begin{array}{r} 83{,}230 \\ +\ 6{,}912 \end{array}$

o. $\begin{array}{r} 5{,}559 \\ +\ 293 \end{array}$

Name _____ **Date** _____

Estimation Power: Addition

Estimate each sum by adding only the front digits, then adjust.

Example: 263 + 531

Step 1: Add only the front digits. 263 + 531 → 7??

Step 2: Adjust for the next place. 60 + 30 is almost another 100. 700 + 100 = 800, so 263 + 531 is about 800.

a. 29 + 13

b. 68 + 23

c. 213 + 101

d. 5,423 + 2,497

e. 3,612 + 4,501

f. 33,641 + 64,258

Estimate each answer using an addition equation. Write your answer using the correct units.

g. Bruce drove 623 miles on Monday. On Tuesday, he drove another 364 miles. About how many miles did Bruce drive?

_____

h. Cassie went to 52 dance classes last year. This year, she went to 153 dance classes. About how many dance classes has Cassie gone to over the two years?

_____

Name _____ **Date** _____

Estimation Power: Subtraction

Use rounding to estimate each difference.

Example: 483 – 202 483 – 202

Step 1: Round each number to the greatest place value, hundreds. 500 – 200

Step 2: Subtract. 500 – 200 = 300 483 – 202 is about 300.

a. 87 – 23

b. 651 – 157

c. 804 – 386

About _____

d. 97 – 21

e. 492 – 68

f. 37 – 12

g. 5,872 – 3,107

h. 861 – 187

i. 170 – 92

j. 84 − 39

k. 413 − 275

l. 6,280 − 5,890

m. 119 − 87

n. 264 − 152

o. 3,741 − 1,629

Name _____ **Date** _____

Estimation Power: Subtraction

Use compatible numbers to estimate.

Example: 478 – 132

Step 1: Chose numbers that work well together and are close to the original numbers.

Step 2: Subtract. 475 – 125 = 350

478 – 132 is about 350.

478 – 132

478 is close to 475.
132 is close to 125.

a. 447 – 252

b. 309 – 160

c. 1,260 – 761

Estimate by rounding to the hundreds place.	Estimate by rounding to the tens place.	Find the exact difference.
d. 637 – 268	e. 637 – 268	f. 637 – 268

g. Which estimate was closer to the exact answer, the one you rounded to the hundreds place or to the tens place?

_____

Estimate by rounding to the thousands place.	Estimate by rounding to the hundreds place.	Find the exact difference.
h. 8,456 – 3,502	i. 8,456 – 3,502	j. 8,456 – 3,502

k. Which estimate was closer to the exact answer?

_____

Name _____ **Date** _____

Word Problem Power: Addition

a. Robert made fruit smoothies using 1 pineapple, 4 peaches, 3 mangos, and 16 strawberries. How many pieces of fruit did Robert use for the smoothies?

_____

b. Janine used 21 gallons of fuel in her van last week. She used another 19 gallons of fuel this week. How many gallons of fuel did she use in the two weeks?

_____

c. Rahsaan spent $229 on a bicycle. He spent another $52 on a helmet. How much money did he spend in all?

_____

d. There are 5,622 people living in the town of Maron. There are 2,786 people living in the town of Temple. How many people are living in the two towns combined?

_____

e. Gloria bought a 144-ounce jar of crunchy peanut butter. She also bought a 56-ounce jar of creamy peanut butter. How many ounces of peanut butter did Gloria buy?

_____

Name _____ **Date** _____

Word Problem Power: Addition

a. Carla drove 768 miles to attend a wedding. Then she drove another 210 miles to visit her uncle. Finally, she drove 862 miles to get back home. How many miles did Carla drive in all?

_____

b. Benjamin ran 3,241 meters. Lory ran 3,569 meters. How many meters did they run in all?

_____

c. Jeremy has 37 stuffed toy pigs. He also has 18 stuffed toy dogs. How many stuffed animals does Jeremy have all together?

_____

d. Jill and Katie planted 1,444 tulip bulbs in the fall. They planted another 523 tulip bulbs the following spring. Estimate the total number of tulip bulbs they planted.

_____

e. On Monday, 16,427 vehicles crossed Sherman Bridge. On Tuesday, another 23,621 vehicles crossed the bridge. About how many vehicles crossed Sherman bridge in the two days?

_____

Name _____ **Date** _____

Word Problem Power: Subtraction

a. Max took 20 crackers out of the box. Then he put 6 back. How many crackers did Max keep?

_____

b. The owner of a flower shop purchased 200 roses. She used 163 in arrangements. How many roses were left?

_____

c. Latoya had $79. She bought two CDs and a new pair of jeans for a total of $48. How much money did Latoya have left?

_____

d. Today, 436 students purchased lunches in the cafeteria. There were 78 students who brought their own lunches. How many more students purchased lunch than brought their own?

_____

e. Gloria bought a 144-ounce jar of crunchy peanut butter. She also bought a 56-ounce jar of creamy peanut butter. How many more ounces were in the crunchy peanut butter jar?

_____

Name _____ **Date** _____

Word Problem Power: Subtraction

a. On vacation, Rachel's family traveled 428 kilometers. Her friend Jackson's family traveled 642 kilometers. How much farther did Jackson's family travel?

_____

b. Students in the sixth grade took two buses to the art museum. There were 102 student on the trip. 56 students rode on the first bus. How many students rode on the second bus?

_____

c. Mr. Nagasaki has 32,682 frequent flyer miles so far this year. He thinks he will have 150,000 by the end of the year. About how many more miles does Mr. Nagasaki think he will be flying?

_____

d. Theo paid $268 for four tickets for pavilion seating at a concert. If he had gotten lawn seats instead, he would have paid $49. About how much could he have saved with lawn seats?

_____

e. On Thursday, 22,219 vehicles crossed Sherman Bridge. On Friday, 37,912 vehicles crossed the bridge. About how many more vehicles crossed on Friday than crossed on Thursday?

_____

Name _____ **Date** _____

Adding Time

Example: Add 2 hours 10 minutes + 6 hours 35 minutes.

Step 1: Add minutes.

2 hours 10 minutes
+ 6 hours 35 minutes
45 minutes

Step 2: Add hours.

2 hours 10 minutes
+ 6 hours 35 minutes
8 hours 45 minutes

a. 4 hours 9 minutes
+ 3 hours 16 minutes

b. 12 hours 26 minutes
+ 9 hours 18 minutes

c. 6 hours 37 minutes
+ 6 hours 12 minutes

d. 8 hours 42 minutes
+ 5 hours 16 minutes

e. 32 minutes 40 seconds
+ 9 minutes 9 seconds

f. 40 minutes 50 seconds
+ 14 minutes 8 seconds

g. 2 weeks 3 days
+ 1 week 1 day

h. 25 years 3 months
+ 13 years 8 months

i. Harold spent 2 hours and 20 minutes working on a science report. He spent 1 hour and 12 minutes on a math paper. How long did he spend on both subjects combined?

_____

Name _____ **Date** _____

Adding Time with Regrouping

Example: Add 6 hours 35 minutes + 6 hours 35 minutes.

Step 1: Add minutes.	*Step 2: Regroup.*	*Step 3: Add hours.*
	1	1
6 hours 35 minutes	6 hours 35 minutes	6 hours 35 minutes
+ 6 hours 35 minutes	+ 6 hours 35 minutes	+ 6 hours 35 minutes
70 minutes	10 minutes	13 hours 10 minutes

a. 5 weeks 6 days
+ 3 weeks 3 days

b. 12 weeks 4 days
+ 9 weeks 4 days

c. 9 hours 27 minutes
+ 6 hours 48 minutes

d. 16 hours 54 minutes
+ 5 hours 36 minutes

e. 32 days 20 hours
+ 9 days 9 hours

f. 40 minutes 50 seconds
+ 14 minutes 10 seconds

g. 2 hours 30 minutes
+ 1 hour 36 minutes

h. 19 years 6 months
+ 12 years 8 months

i. Belinda lived in an apartment for 3 years and 9 months. Then she moved to another apartment for 10 more months. How long did Belinda live in apartments?

_____

Name _____ **Date** _____

Subtracting Time

Example: Subtract 6 minutes 35 seconds – 3 minutes 45 seconds.

Step 1: Regroup as needed.

$$\begin{array}{r} {}^{5}\cancel{6}\text{ minutes }{}^{95}\cancel{35}\text{ seconds} \\ -\ 3\text{ minutes }45\text{ seconds} \\ \hline \end{array}$$

Step 2: Subtract seconds.

$$\begin{array}{r} {}^{5}\cancel{6}\text{ minutes }{}^{95}\cancel{35}\text{ seconds} \\ -\ 3\text{ minutes }45\text{ seconds} \\ \hline 50\text{ seconds} \end{array}$$

Step 3: Subtract minutes.

$$\begin{array}{r} {}^{5}\cancel{6}\text{ minutes }{}^{95}\cancel{35}\text{ seconds} \\ -\ 3\text{ minutes }45\text{ seconds} \\ \hline 2\text{ minutes }50\text{ seconds} \end{array}$$

a. 8 minutes 23 seconds
– 1 minute 27 seconds

b. 30 minutes 29 seconds
– 29 minutes 42 seconds

c. 42 minutes 16 seconds
– 10 minutes 20 seconds

d. 9 minutes 59 seconds
– 6 minutes 18 seconds

e. 6 hours 14 minutes
– 4 hours 16 minutes

f. 12 hours 40 minutes
– 5 hours 58 minutes

g. 8 weeks 4 days
– 3 weeks 6 days

h. 9 years 6 months
– 8 years 8 months

i. Jane has kittens that are 7 weeks and 2 days old. They got their first vaccinations 1 week and 3 days ago. How old were the kittens when they were vaccinated?

_____

Name _____ **Date** _____

Elapsed Time

Find the elapsed time.

a. A movie began at 7:20 PM and ended at 8:45 PM. How long did the movie last?

_____

b. Michael woke up at 6:45 AM. He got on the bus at 8:15 AM. How much time had passed?

_____

c. Joanne finished a race in 2 minutes 38 seconds. Lynette finished after Joanne in 3 minutes 15 seconds. How much time passed between Joanne's and Lynette's crossing the finish line?

_____

d. Toby the puppy visited the vet when he was 6 weeks and 3 days old. He visited again when he was 8 weeks and 6 days old. How much time had passed?

_____

e. Alaine answered the phone at 5:23 PM. She hung up at 5:40 PM. How much time had passed?

_____

f. Luke started cleaning his room at 10:47 AM. He finished at 2:31 PM. How much time had passed?

_____

Name _____ **Date** _____

Adding Decimals

Example: Add 0.2 + 6.1

Step 1: Line up the decimal points.

$$\begin{array}{r} 0.2 \\ +\ 6.1 \\ \hline \end{array}$$

Step 2: Add.

$$\begin{array}{r} 0.2 \\ +\ 6.1 \\ \hline 6.3 \end{array}$$

Remember to put the decimal point in the answer.

a. 5.6 + 1.1

b. 4.3 + 0.6

c. 0.2 + 0.2

d. 6.5 + 3.3

e. 0.02 + 0.51

f. 0.72 + 1.36

g. 8.8 + 0.3

h. 6.2 + 9.2

i. 4.261 + 3.333

j. $\begin{array}{r} 4.2 \\ +\ 7.9 \\ \hline \end{array}$

k. $\begin{array}{r} 16.51 \\ +\ 19.52 \\ \hline \end{array}$

l. $\begin{array}{r} 4.213 \\ +\ 6.589 \\ \hline \end{array}$

m. $\begin{array}{r} 1.092 \\ +\ 2.743 \\ \hline \end{array}$

n. $\begin{array}{r} 8.15 \\ +\ 8.1 \\ \hline \end{array}$

o. $\begin{array}{r} 19.1 \\ +\ 1.06 \\ \hline \end{array}$

p. $\begin{array}{r} 20.06 \\ +\ 42.18 \\ \hline \end{array}$

q. $\begin{array}{r} 3.984 \\ +\ 0.26 \\ \hline \end{array}$

Name _____ **Date** _____

Adding Decimals

a. 26.24 + 3.71

b. 0.63 + 0.63

c. 9.96 + 6.1

d. 0.04 + 0.08

e. 4.27 + 5.34

f. 6.5 + 4.5

g. 10.68 + 8.2

h. 0.02 + 0.002

i. 321.6 + 25.72

Solve each problem using an addition equation.

j. Mary has a 4.2-liter and a 6.0-liter container for water. How many liters of water will the containers hold in all?

_____

k. Tori and Jenna walk a 2.28-kilometer path together every day. How many kilometers do they walk combined?

_____

l. There was a snowfall of 12.6 centimeters one week. The next week, there was a snowfall of 3.45 centimeters. What was the total snowfall for both weeks?

_____

Name _____ **Date** _____

Subtracting Decimals

Example: Subtract 8.5 – 2.2

Step 1: Line up the decimal points.

$$\begin{array}{r} 8.5 \\ -\ 2.2 \\ \hline \end{array}$$

Step 2: Subtract.

$$\begin{array}{r} 8.5 \\ -\ 2.2 \\ \hline 6.3 \end{array}$$

Remember to put the decimal point in the answer.

a. 6.4 – 1.1

b. 0.97 – 0.04

c. 4.26 – 1.49

d. 32.4 – 16.9

e. 3.47 – 1.2

f. 94.08 – 13.42

g. 11.16 – 4.2

h. 7.97 – 3.24

i. 3.9 – 0.27

j. $\begin{array}{r} 36.02 \\ -\ 7.44 \\ \hline \end{array}$

k. $\begin{array}{r} 149.7 \\ -\ 82.91 \\ \hline \end{array}$

l. $\begin{array}{r} 51.8 \\ -\ 1.9 \\ \hline \end{array}$

m. $\begin{array}{r} 1.72 \\ -\ 0.8 \\ \hline \end{array}$

n. $\begin{array}{r} 17.6 \\ -\ 3.8 \\ \hline \end{array}$

o. $\begin{array}{r} 39.02 \\ -\ 27.61 \\ \hline \end{array}$

p. $\begin{array}{r} 112.01 \\ -\ 111.99 \\ \hline \end{array}$

q. $\begin{array}{r} 0.35 \\ -\ 0.057 \\ \hline \end{array}$

Name _____ **Date** _____

Subtracting Decimals

a. 9.2 – 6.75

b. 50.32 – 7.2

c. 22 – 8.01

d. 3.19 – 0.68

e. 0.85 – 0.59

f. 60.1 – 58.67

g. 4.93 – 3.16

h. 2.1 – 0.9

i. 74 – 47.4

Solve each problem using a subtraction equation.

j. Kevin finished a race in 56.25 seconds. Marcus finished the same race in 55.7 seconds. What was the difference in their times?

_____

k. One pencil is 10.2 cm long. Another is 6.95 cm long. What is the difference in length?

_____

l. This morning Meghan had a temperature of 98.9°F. Last night she had a temperature of 100.6°F. How much did her temperature change?

_____

Name _____ **Date** _____

Adding Money

Example: Add $12.30 + $20.00

Step 1: Line up the decimal points.

$$\begin{array}{r} \$12.30 \\ +\ \$20.00 \\ \hline \end{array}$$

Step 2: Add.

$$\begin{array}{r} \$12.30 \\ +\ \$20.00 \\ \hline \$32.30 \end{array}$$

Remember to put the dollar sign and decimal point in the answer.

a. $1.50 + $2.25

b. $6.00 + $5.50

c. $1.35 + $2.10

d. $12.65 + $4.25

e. $10.00 + $5.75

f. $8.60 + $0.62

g. What is the value of 2 quarters, 5 dimes, and 3 pennies?

h. What is the value of 2 ten-dollar bills, 2 one-dollar bills, 1 quarter, and 3 nickels?

i. What is the value of 1 fifty-dollar bill, 3 five-dollar bills, 3 quarters, and 1 penny?

Name _____ **Date** _____

Adding Money

a. $16.42 + $19.78

b. $12.99 + $12.99

c. $0.30 + $0.30

d. $6.25 + $1.75

e. $23.97 + $8.00

f. $40.00 + $13.32

g. Thom has 3 one-dollar bills, 2 quarters, and a nickel. How much money does he have in all?

_____

h. Jenny has 1 five-dollar bill, 1 one-dollar bill, 1 quarter, and 6 pennies. How much money does she have in all?

_____

i. Garrett had $16.52. Mr. Wendt paid him $25.00 for computer work. How much money does Garrett have now?

_____

j. Will called his mother in Scotland two times this week. The first call cost $23.42. The second call cost $6.74. How much did the two calls cost?

_____

Name _____ **Date** _____

Subtracting Money

Example: Subtract $9.54 – $2.38.

Step 1: Line up the decimal points.

$$\begin{array}{r} \$\ 9.54 \\ +\ \$\ 2.38 \\ \hline \end{array}$$

Step 2: Subtract.

$$\begin{array}{r} {\scriptstyle 4\ 14} \\ \$\ 9.\cancel{5}\cancel{4} \\ +\ \$\ 2.38 \\ \hline \$7.16 \end{array}$$

Remember to put the dollar sign and decimal point in the answer.

a. $8.98 – $0.67

b. $9.54 – $2.38

c. $6.14 – $0.25

d. $5.03 – $1.27

e. $6.50 – $5.50

f. $13.86 – $13.42

g. $12.99 – $4.20

h. $45.22 – $37.50

i. $16.00 – $15.11

j. $\begin{array}{r} \$52.31 \\ -\ \$24.57 \\ \hline \end{array}$

k. $\begin{array}{r} \$27.09 \\ -\ \$\ 9.50 \\ \hline \end{array}$

l. $\begin{array}{r} \$30.00 \\ -\ \$23.90 \\ \hline \end{array}$

m. $\begin{array}{r} \$50.00 \\ -\ \$49.75 \\ \hline \end{array}$

n. $\begin{array}{r} \$162.36 \\ -\ \$\ 89.99 \\ \hline \end{array}$

o. $\begin{array}{r} \$65.65 \\ -\ \$41.16 \\ \hline \end{array}$

p. $\begin{array}{r} \$87.41 \\ -\ \$32.41 \\ \hline \end{array}$

q. $\begin{array}{r} \$23.58 \\ -\ \$\ \ 9.10 \\ \hline \end{array}$

Name _____ Date _____

Making Change

Find the correct change by subtracting or counting up.

Cost of Item	Amount Paid	Change
Example: $5.20	$6.00	$0.80
$14.20	$20.00	a. _____
$0.68	$5.00	b. _____
$9.32	$20.00	c. _____
$132.50	$200.00	d. _____
$125.00	$150.00	e. _____
$1.47	$5.00	f. _____
$14.23	$15.00	g. _____
$2.39	$10.00	h. _____
$21.85	$30.00	i. _____
$4.22	$10.00	j. _____
$3.16	$5.00	k. _____
$6.78	$10.00	l. _____

Name _____ **Date** _____

Adding Like Integers

Example: Add $^{-}8 + {}^{-}7$.

Step 1: Pretend the signs are not there. $^{\not -}8 + {}^{\not -}7$
Step 2: Add. $8 + 7 = 15$
Step 3: Put the same sign on the sum. $^{-}8 + {}^{-}7 = {}^{-}15$

a. $^{-}4 + {}^{-}2 =$ _____ b. $^{+}6 + {}^{+}4 =$ _____ c. $^{-}14 + {}^{-}8 =$ _____

d. $^{-}9 + {}^{-}10 =$ _____ e. $^{-}21 + {}^{-}13 =$ _____ f. $^{+}7 + {}^{+}2 =$ _____

g. $^{+}55 + {}^{+}42 =$ _____ h. $^{-}27 + {}^{-}81 =$ _____ i. $^{+}4 + {}^{+}3 =$ _____

j. $^{-}11 + {}^{-}4 =$ _____ k. $^{-}6 + {}^{-}7 =$ _____ l. $^{+}8 + {}^{+}2 =$ _____

m. $^{+}13 + 0 =$ _____ n. $^{-}3 + {}^{-}9 =$ _____ o. $^{-}6 + {}^{-}4 =$ _____

Write an integer equation for this problem and solve it. Write the answer in a complete sentence.

p. Michael owed his mother $3. He borrowed another $3. How much money does Michael owe his mother now?

_____

Name _____ **Date** _____

Adding Unlike Integers

Example: Add $^{-}8 + {}^{+}3$.

Step 1: Pretend the signs are not there. $^{-}8 \quad {}^{+}3 \quad 8 \quad 3$
Step 2: Subtract the smaller number from the larger number. $8 - 3 = 5$
Step 3: Put the sign of the larger number on the sum. $^{-}8 + {}^{+}3 = {}^{-}5$

a. $^{-}6 + {}^{+}2 =$ _____ b. $^{+}7 + {}^{-}3 =$ _____ c. $^{-}4 + {}^{+}8 =$ _____

d. $^{-}15 + {}^{+}6 =$ _____ e. $^{+}11 + {}^{-}2 =$ _____ f. $^{+}7 + {}^{-}14 =$ _____

g. $^{-}5 + {}^{+}16 =$ _____ h. $^{+}4 + {}^{-}5 =$ _____ i. $^{-}9 + {}^{+}6 =$ _____

j. $^{-}10 + {}^{+}20 =$ _____ k. $^{-}21 + {}^{+}14 =$ _____ l. $^{-}5 + {}^{+}8 =$ _____

m. $^{-}40 + {}^{+}30 =$ _____ n. $^{+}33 + {}^{-}65 =$ _____ o. $^{-}3 + 0 =$ _____

Write an integer equation for this problem and solve it. Write the answer in a complete sentence

p. Michael owed his mother $6. He paid her $4.
How much money does Michael owe his mother now?

_____

Name _____ **Date** _____

Subtracting Integers

Example: Subtract $^{-}6 - {}^{+}3$.

Step 1: Change the problem to addition.
$^{-}6 - {}^{+}3$ becomes $^{-}6 + {}^{-}3$

Step 2: Add.
$^{-}6 + {}^{-}3 = {}^{-}9$

a. $^{-}6 - {}^{+}2 =$ _____ b. $^{+}7 - {}^{-}3 =$ _____ c. $^{-}4 - {}^{+}8 =$ _____

d. $^{-}15 - {}^{+}6 =$ _____ e. $^{+}11 - {}^{-}2 =$ _____ f. $^{+}7 - {}^{-}14 =$ _____

g. $^{-}5 - {}^{+}16 =$ _____ h. $^{+}4 - {}^{-}5 =$ _____ i. $^{-}9 - {}^{+}6 =$ _____

j. $^{-}10 - {}^{+}20 =$ _____ k. $^{-}21 - {}^{+}14 =$ _____ l. $^{-}5 - {}^{+}8 =$ _____

m. $^{-}40 - {}^{+}30 =$ _____ n. $^{+}33 - {}^{-}65 =$ _____ o. $^{-}3 - 0 =$ _____

Write an integer equation for this problem and solve it. Write the answer in a complete sentence.

p. The town Jamie lives in is 20 feet above sea level.
The town his grandparents live in is 16 feet below sea level.
What is the difference in altitude?

_____

Name _____ **Date** _____

Subtracting Integers

a. $^{-}4 - {}^{-}2 =$ _____ b. $^{+}6 - {}^{+}4 =$ _____ c. $^{-}14 - {}^{-}8 =$ _____

d. $^{-}9 - {}^{-}10 =$ _____ e. $^{-}21 - {}^{-}13 =$ _____ f. $^{+}7 - {}^{+}2 =$ _____

g. $^{+}55 - {}^{+}42 =$ _____ h. $^{-}27 - {}^{-}81 =$ _____ i. $^{+}4 - {}^{+}3 =$ _____

j. $^{-}11 - {}^{-}4 =$ _____ k. $^{+}6 - {}^{+}7 =$ _____ l. $^{+}8 - {}^{+}2 =$ _____

m. $^{+}13 - 0 =$ _____ n. $^{-}3 - {}^{-}9 =$ _____ o. $^{-}6 - {}^{-}4 =$ _____

Write an integer equation for each problem and solve it. Write the answer in a complete sentence.

p. The temperature on January 8 was $^{+}3°F$.
January 9 had a temperature of $^{+}6°F$.
What was the difference in temperature?

_____

q. The town Kendra lives in is 10 feet below sea level.
The town where she goes on vacation is 32 feet below sea level.
What is the difference in altitude?

_____

Name _____ **Date** _____

Adding Like Fractions

Example: Add $\frac{1}{3} + \frac{1}{3}$.

Step 1: Add the numerators.

$$\frac{1}{3} + \frac{1}{3} = \frac{1+1}{\quad} = \frac{2}{\quad}$$

Step 2: Keep the same denominator.

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

a. $\frac{1}{4} + \frac{2}{4} =$

b. $\frac{3}{6} + \frac{2}{6} =$

c. $\frac{1}{8} + \frac{4}{8} =$

d. $\frac{2}{5} + \frac{2}{5} =$

e. $\frac{5}{12} + \frac{2}{12} =$

f. $\frac{3}{9} + \frac{2}{9} =$

g. $\frac{3}{10} + \frac{4}{10} =$

h. $\frac{1}{2} + \frac{1}{2} =$

i. $\frac{3}{14} + \frac{10}{14} =$

j. $\frac{5}{7} + \frac{1}{7} =$

k. $\frac{2}{4} + \frac{1}{4} =$

l. $\frac{3}{8} + \frac{3}{8} =$

Write a fraction equation for this problem and solve it.
Write the answer in a complete sentence.

m. In a town, $\frac{3}{5}$ of the houses are painted white. Another $\frac{1}{5}$ are painted yellow. What fraction of the houses are painted either white or yellow?

_____

Name _____ **Date** _____

Adding Unlike Fractions

Example: Add $\frac{1}{2} + \frac{1}{4}$.

Step 1: Give the fractions a common denominator.

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

Step 2: Add the numerators. Keep the same denominator.

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

a. $\frac{1}{3} + \frac{1}{6} =$

b. $\frac{2}{3} + \frac{1}{9} =$

c. $\frac{1}{5} + \frac{3}{10} =$

d. $\frac{1}{12} + \frac{3}{4} =$

e. $\frac{1}{12} + \frac{2}{3} =$

f. $\frac{5}{12} + \frac{1}{2} =$

g. $\frac{67}{100} + \frac{3}{10} =$

h. $\frac{3}{16} + \frac{1}{4} =$

i. $\frac{1}{6} + \frac{1}{2} =$

Write a fraction equation for this problem and solve it.
Write the answer in a complete sentence.

j. Nancy did $\frac{1}{2}$ of her math homework during study hall. She did another $\frac{1}{3}$ while she waited for her bus. What fraction of her homework did Nancy do before she went home?

_____

Name _____ **Date** _____

Subtracting Like Fractions

Example: Subtract $\frac{2}{3} - \frac{1}{3}$.

Step 1: Subtract the numerators.

$$\frac{2}{3} - \frac{1}{3} = \frac{2 - 1}{} = \frac{1}{}$$

Step 2: Keep the same denominator.

$$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$$

a. $\frac{3}{4} - \frac{2}{4} =$

b. $\frac{7}{10} - \frac{4}{10} =$

c. $\frac{5}{7} - \frac{1}{7} =$

d. $\frac{11}{14} - \frac{10}{14} =$

e. $\frac{5}{12} - \frac{2}{12} =$

f. $\frac{3}{9} - \frac{2}{9} =$

g. $\frac{5}{12} - \frac{3}{12} =$

h. $\frac{12}{20} - \frac{7}{20} =$

i. $\frac{21}{32} - \frac{8}{32} =$

j. $\frac{4}{7} - \frac{2}{7} =$

k. $\frac{60}{100} - \frac{23}{100} =$

l. $\frac{6}{11} - \frac{2}{11} =$

Write a fraction equation for this problem and solve it.
Write the answer in a complete sentence.

m. There was $\frac{3}{8}$ of a pizza left. Then Bart ate another $\frac{2}{8}$ of the pizza. What fraction of the pizza is left?

Name _____ **Date** _____

Subtracting Unlike Fractions

Example: Subtract $\frac{1}{2} - \frac{1}{4}$.

Step 1: Give the fractions a common denominator.

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

Step 2: Subtract the numerators. Keep the same denominator.

$$\frac{2}{4} - \frac{1}{4} = \frac{2 - 1}{4} = \frac{1}{4}$$

a. $\frac{2}{5} - \frac{3}{10} =$

b. $\frac{3}{4} - \frac{1}{2} =$

c. $\frac{7}{8} - \frac{3}{4} =$

d. $\frac{1}{2} - \frac{1}{6} =$

e. $\frac{2}{3} - \frac{1}{9} =$

f. $\frac{1}{2} - \frac{1}{3} =$

g. $\frac{37}{100} - \frac{3}{10} =$

h. $\frac{11}{12} - \frac{2}{3} =$

i. $\frac{7}{16} - \frac{1}{4} =$

Write a fraction equation for this problem and solve it.
Write the answer in a complete sentence.

j. Paul had $\frac{1}{3}$ of his house left to paint when he ate his lunch. After lunch, he painted another $\frac{1}{4}$ then took a break. How much was left to paint after his break?

_____

Name _____ **Date** _____

Adding Mixed Numbers

Example: Add $6\frac{1}{3} + 2\frac{1}{3}$.

Step 1: Add the fractions. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

Step 2: Add the whole numbers. $6 + 2 = 8$

Step 3: Combine the sums. $8\frac{2}{3}$

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

a. $3\frac{1}{4} + 4\frac{2}{4} =$

b. $7\frac{2}{5} + 6\frac{2}{5} =$

c. $12\frac{3}{12} + 10\frac{8}{12} =$

d. $8\frac{7}{8} + 9\frac{4}{8} =$

e. $2\frac{1}{10} + 7\frac{6}{10} =$

f. $1\frac{1}{3} + 1\frac{2}{3} =$

g. $5\frac{1}{4} + 3\frac{1}{4} =$

h. $6\frac{3}{7} + 6\frac{2}{7} =$

i. $2\frac{12}{15} + 4\frac{2}{15} =$

j. $14\frac{10}{25} + 7\frac{7}{25} =$

k. $20\frac{62}{100} + 20\frac{31}{100} =$

l. $8\frac{5}{6} + 3\frac{5}{6} =$

Write a mixed number equation for this problem and solve it. Write the answer in a complete sentence.

m. Brenda used $2\frac{2}{4}$ cups of sugar for cookies. She used another $1\frac{1}{4}$ cups for tea. How many cups of sugar did Brenda use?

Name _____ **Date** _____

Adding Mixed Numbers

Example: Add $4\frac{1}{3} + 1\frac{1}{6}$.

Step 1: Change to like fractions. $4\frac{1}{3} = 4\frac{2}{6}$

Step 2: Add. $4\frac{2}{6} + 1\frac{1}{6} = 5\frac{3}{6}$ or $5\frac{1}{2}$

a. $2\frac{1}{2} + 2\frac{1}{4} =$

b. $6\frac{3}{5} + 1\frac{8}{15} =$

c. $9\frac{2}{3} + 10\frac{5}{12} =$

d. $50\frac{9}{20} + 20\frac{1}{4} =$

e. $11\frac{5}{6} + 4\frac{2}{3} =$

f. $4\frac{12}{15} + 4\frac{2}{5} =$

g. $9\frac{14}{25} + \frac{23}{100} =$

h. $20 + 20\frac{7}{15} =$

i. $1\frac{3}{4} + 3\frac{1}{6} =$

Write a mixed number equation for this problem and solve it. Write the answer in a complete sentence.

j. On Saturday, Mark spent $4\frac{3}{4}$ hours cleaning the garage. Then he cleaned the basement for another $2\frac{2}{3}$ hours. How many hours did Mark clean on Saturday?

_____

Name _____ **Date** _____

Subtracting Mixed Numbers

Example: Subtract $4\frac{1}{4} - 1\frac{3}{4}$.

Step 1:
Regroup if needed.

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

Step 2:
Subtract fractions.

$$\begin{array}{r} 3\frac{5}{4} \\ -\ 1\frac{3}{4} \\ \hline \frac{2}{4} \end{array}$$

Step 3:
Subtract whole numbers.

$$\begin{array}{r} 3\frac{5}{4} \\ -\ 1\frac{3}{4} \\ \hline 2\frac{2}{4} \text{ or } 2\frac{1}{2} \end{array}$$

a. $4\frac{3}{4} - 4\frac{1}{4} =$

b. $5\frac{4}{5} - 3\frac{2}{5} =$

c. $7\frac{5}{12} - 4\frac{7}{12} =$

d. $9\frac{3}{8} - 2\frac{5}{8} =$

e. $1\frac{1}{10} - \frac{7}{10} =$

f. $8\frac{1}{3} - 6\frac{2}{3} =$

g. $14\frac{3}{4} - 10\frac{3}{8} =$

h. $5 - 2\frac{1}{2} =$

i. $3\frac{5}{6} - 2\frac{1}{3} =$

j. $7\frac{2}{7} - 6\frac{1}{14} =$

k. $18\frac{1}{2} - 15\frac{1}{4} =$

l. $3\frac{24}{25} - 3\frac{43}{50} =$

Name _____ **Date** _____

Subtracting Mixed Numbers

Example: Subtract $4\frac{1}{4} - 1\frac{3}{4}$.

Step 1: Change the mixed numbers to improper fractions.

$4\frac{1}{4} = \frac{(4 \times 4) + 1}{4} = \frac{17}{4}$

$1\frac{3}{4} = \frac{(4 \times 1) + 3}{4} = \frac{7}{4}$

Step 2: Subtract fractions. Reduce the answer to lowest terms.

$\frac{17}{4} - \frac{7}{4} = \frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2}$

a. $4\frac{3}{4} - 4\frac{1}{4} =$

b. $5\frac{4}{5} - 3\frac{2}{5} =$

c. $7\frac{5}{12} - 4\frac{7}{12} =$

d. $14\frac{3}{4} - 10\frac{3}{8} =$

e. $5 - 2\frac{1}{2} =$

f. $3\frac{5}{6} - 2\frac{1}{3} =$

Write a mixed number equation for this problem and solve it. Write the answer in a complete sentence.

g. Boyd brought in $12\frac{1}{3}$ pounds of pop cans to recycle. Ella brought in $14\frac{1}{2}$ pounds of pop cans. How much more did Ella bring in than Boyd?

_____

Answers

Adding Whole Numbers

Page 3: a. 1; b. 6; c. 5; d. 5; e. 5; f. 2; g. 2; h. 5; i. 3; j. 8; k. 5; l. 4; m. 8; n. 6; o. 8; p. 9; q. 9; r. 9; s. 6; t. 8

Page 4: a. 8; b. 7; c. 4; d. 8; e. 9; f. 0; g. 7; h. 7; i. 9; j. 3 + 1 = 4, Caleb went to the principal's office 4 times.; k. 4 + 5 = 9. Autumn put 9 marbles in the jar.

Regrouping Power: Addition

Page 5: a. 10; b. 15; c. 16; d. 10; e. 10; f. 10; g. 13; h. 13; i. 10; j. 12; k. 17; l. 14; m. 18; n. 15; o. 14; p. 12; q. 10; r. 11; s. 11; t. 13

Page 6: a. 15; b. 13; c. 12; d. 14; e. 10; f. 14; g. 12; h. 11; i. 10; j. 6 + 4 = 10. Jessica worked 10 hours.; k. 7 + 7 = 14. They caught 14 fish together.

Adding Larger Numbers

Page 7: a. 58; b. 78; c. 99; d. 51; e. 78; f. 16; g. 79; h. 99; i. 84; j. 69; k. 29; l. 37; m. 938; n. 808; o. 159; p. 887

Page 8: a. 345; b. 669; c. 695; d. 307; e. 3,935; f. 7,762; g. 8,927; h. 7,369; i. 126 + 313 = 439. They read 439 books all together.; j. 32 + 7 = 39. They had 39 points.

Multi-Digit Regrouping: Addition

Page 9: a. 62; b. 91; c. 70; d. 30; e. 22; f. 63; g. 63; h. 101; i. 451; j. 206; k. 562; l. 1,151; m. 1,011; n. 5,008; o. 7,063; p. 13,409

Page 10: a. 100; b. 362; c. 693; d. 952; e. 819; f. 1,462; g. 8,911; h. 14,894; i. 365 + 365 = 730. There are 730 days in two years.; j. 83 + 59 = 142. Madeline sold 142 candy bars in two weeks.

Addition Properties

Page 11: a. 7, 7; b. 8, 8; c. 17, 17; d. 58, 58; e. 70, 70; f. 10, 10; g. 13, 13; h. 36, 36; i. 18, 18

Page 12: a. 6; b. 8; c. 12; d. 23; e. 52; f. 415; g. 9; h. 4; i. 37; j. 927; k. Commutative property; l. Zero property; m. Associative property

Subtracting Whole Numbers

Page 13: a. 1; b. 6; c. 4; d. 2; e. 0; f. 5; g. 3; h. 1; i. 3; j. 3; k. 2; l. 0; m. 1; n. 0; o. 0; p. 7; q. 2; r. 2; s. 5; t. 4

Page 14: a. 8; b. 0; c. 8; d. 1; e. 2; f. 0; g. 4; h. 6; i. 4; j. 7 –3 = 4. Shawna has 4 blue pencils.; k. 9 – 0 = 9. 9 kittens are not white.

Inverse Operations

Page 15: a. 6 + 1 = 7, 1 + 6 = 7, 7 – 1 = 6, 7 – 6 = 1; b. 0 + 5 = 5, 5 + 0 = 5, 5 – 5 = 0, 5 – 0 = 5; c. 2 + 3 = 5, 3 + 2 = 5, 5 – 3 = 2, 5 – 2 = 3; d. 2 + 5 = 7, 5 + 2 = 7, 7 – 5 = 2, 7 – 2 = 5

Page 16: a. 7 – 0 = 7, 7 + 0 = 7; b. 9 – 8 = 1, 1 + 8 = 9; c. 6 – 4 = 2, 2 + 4 = 6; d. 3 + 4 = 7, 7 – 4 = 3; e. 9 – 3 = 6, 6 + 3 = 9; f. 5 + 1 = 6, 6 – 1 = 5; Reasons: Possible answers To compare amounts, to check addition, to find a difference, to see what you have left.

Subtracting Larger Numbers

Page 17: a. 25; b. 24; c. 50; d. 32; e. 11; f. 11; g. 31; h. 37; i. 51; j. 1; k. 10; l. 16; m. 405; n. 241; o. 851; p. 11

Page 18: a. 409; b. 701; c. 230; d. 504; e. 5,101; f. 8,401; g. 4,163; h. 1,692; i. 627 – 515 = 112. Ben scored 112 points more than Will.; j. 938 – 912 = 26. Marci needs $26 more to buy a new computer.

Regrouping Power: Subtraction

Page 19: a. 14; b. 9; c. 12; d. 78; e. 8; f. 18; g. 47; h. 7; i. 2; j. 9; k. 16; l. 35; m. 13; n. 59; o. 7; p. 49

Page 20: a. 8; b. 27; c. 25; d. 8; e. 44; f. 78; g. 7; h. 29; i. 10; j. 56 – 47 = 9. Michelle is 9 inches taller than Kara.; k. 41 – 25 = 16. Francine has $16 left.

Multi-Digit Regrouping: Subtraction

Page 21: a. 225; b. 189; c. 485; d. 394; e. 147; f. 320; g. 198; h. 664; i. 1,963; j. 2,809; k. 6,379; l. 2,095

Page 22: a. 1,378; b. 17,780; c. 19,592; d. 6,099; e. 12,734; f. 741,046; g. 2,500 – 1,768 = 732. There were 732 servings left.; h. 8,943 – 8,696 = 247. There were 247 more restaurants.

Mental Math Power: Addition

Page 23: a. 38; b. 37; c. 43; d. 42; e. 24; f. 23; g. 95; h. 104; i. 76; j. 65; k. 111; l. 40; m. 465; n. 464; o. 921; p. 920; q. 636; r. 635; s. 741; t. 536; u. 428; v. 844

Page 24: a. 20; b. 16; c. 18; d. 23; e. 50; f. 446; g. 568; h. 4,000; i. 64; j. 100; k. 175; l. 1,600; m. 953; n. 4,420

Mental Math Power: Subtraction

Page 25: a. 33; b. 34; c. 46; d. 47; e. 14; f. 15; g. 10; h. 16; i. 109; j. 73; k. 52; l. 81; m. 351; n. 352; o. 767; p. 768; q. 24; r. 25; s. 809; t. 317; u. 159; v. 601

Page 26: a. 52; b. 375; c. 54; d. 23; e. 400; f. 599; g. 132; h. 0; i. 55; j. 30; k. 25; l. 420; m. 6,264; n. 27

Estimation Power: Addition

Page 27: a. About 80; b. About 30; c. About 140; d. About 200; e. About 150; f. About 50; g. About 400; h. About 1,000; i. About 800; j. About 650; k. About 1,800; l. About 550; m. About 150,000; n. About 90,000; o. About 5,900

Page 28: a. About 40; b. About 90; c. About 300; d. About 8,000; e. About 8,000; f. About 100,000; g. 623 + 364 is about 1,000 miles.; h. 52 + 153 is about 200 dance classes.

Estimation Power: Subtraction

Page 29: a. About 70; b. About 500; c. About 400; d. About 80; e. About 420; f. About 30; g. About 3,000; h. About 700; i. About 80; j. About 40; k. About 100; l. About 0; m. About 30; n. About 100; o. About 2,000

Page 30: a. About 200; b. About 150; c. About 500; d. 300; e. 370; f. 369; g. tens place; h. 4,000; i. 5,000; j. 4,954; k. the hundreds place

Word Problem Power: Addition

Page 31: a. 24 pieces of fruit; b. 40 gallons; c. $281; d. 8,408 people; e. 200 ounces

Page 32: a. 1,840 miles; b. 6,810 meters; c. 55 animals; d. About 1,900 tulip bulbs; e. About 40,000 vehicles

Word Problem Power: Subtraction

Page 33: a. 14 crackers; b. 37 roses; c. $31; d. 358 more students; e. 88 more ounces

Page 34: a. 214 kilometers; b. 46 students; c. About 120,000 more miles; d. About $220; e. About 20,000 more vehicles

Adding Time

Page 35: a. 7 hours 25 minutes; b. 21 hours 44 minutes; c. 12 hours 49 minutes; d. 13 hours 58 minutes; e. 41 minutes 49 seconds; f. 54 minutes 58 seconds; g. 3 weeks 4 days; h. 38 years 11 months; i. Harold spent 3 hours 32 minutes on both subjects combined.

Page 36: a. 9 weeks 2 days; b. 22 weeks 1 day; c. 16 hours 15 minutes; d. 22 hours 30 minutes; e. 42 days 5 hours; f. 55 minutes; g. 4 hours 6 minutes; h. 32 years 2 months; i. Belinda lived in apartments for 4 years and 7 months.

Subtracting Time

Page 37: a. 6 minutes 56 seconds; b. 47 seconds; c. 31 minutes 56 seconds; d. 3 minutes 41 seconds; e. 1 hour 58 minutes; f. 6 hours 42 minutes; g. 4 weeks 5 days; h. 10 months; i. The kittens were 5 weeks and 6 days old.

Page 38: a. 1 hour 25 minutes; b. 1 hour 30 minutes; c. 37 seconds; d. 2 weeks 3 days; e. 17 minutes; f. 3 hours 44 minutes

Adding Decimals

Page 39: a. 6.7; b. 4.9; c. 0.4; d. 9.8; e. 0.53; f. 2.08; g. 9.1; h. 15.4; i. 7.594; j. 12.1; k. 36.03; l. 10.802; m. 3.835; n. 16.25; o. 20.16; p. 62.24; q. 4.244

Page 40: a. 29.95; b. 1.26; c. 16.06; d. 0.12; e. 9.61; f. 11; g. 18.88; h. 0.022; i. 347.32; j. 10.2 liters; k. 4.56 kilometers; l. 16.05 centimeters

Subtracting Decimals

Page 41: a. 5.3; b. 0.93; c. 2.77; d. 15.5; e. 2.27; f. 80.66; g. 6.96; h. 4.73; i. 3.63; j. 28.58; k. 66.79; l. 49.9; m. 0.92; n. 13.8; o. 11.41; p. 0.02; q. 0.293

Page 42: a. 2.45; b. 43.12; c. 13.99; d. 2.51; e. 0.26; f. 1.43; g. 1.77; h. 1.2; i. 26.6; j. 0.55 seconds; k. 3.25 cm; l. 1.7°F

Adding Money

Page 43: a. $3.75; b. $11.50; c. $3.45; d. $16.90; e. $15.75; f. $9.22; g. $1.03; h. $22.40; i. $65.76

Page 44: a. $36.20; b. $25.98; c. $0.60; d. $8.00; e. $31.97; f. $53.32; g. $3.55; h. $6.31; i. $41.52; j. $30.16

Subtracting Money

Page 45: a. $8.31; b. $7.16; c. $5.89; d. $3.76; e. $1.00; f. $0.44; g. $8.79; h. $7.72; i. $0.89; j. $27.74; k. $17.59; l. $6.10; m. $0.25; n. $72.37; o. $24.49; p. $55.00; q. $14.48

Page 46: a. $5.80; b. $4.32; c. $10.68; d. $67.50; e. $25.00; f. $3.53; g. $0.77; h. $7.61; i. $8.15; j. $5.78; k. $1.84; l. $3.22

Adding Integers

Page 47: a. -6; b. $+10$; c. -22; d. -19; e. -34; f. $+9$; g. $+97$; h. -108; i. $+7$; j. -15; k. -13; l. $+10$; m. $+13$; n. -12; o. -10; p. $-3 + -3 = -6$. Michael owes his mother $6.

Page 48: a. -4; b. $+4$; c. $+4$; d. -9; e. $+9$; f. -7; g. $+11$; h. -1; i. -3; j. $+10$; k. -7; l. $+3$; m. -10; n. -32; o. -3; p. $-6 + +4 = -2$. Michael owes his mother $2.

Subtracting Integers

Page 49: a. -8; b. $+10$; c. -12; d. -21; e. $+13$; f. $+21$; g. -21; h. $+9$; i. -15; j. -30; k. -35; l. -13; m. -70; n. $+98$; o. -3; p. $+20 - -16 = +36$. The difference in altitude is 36 feet.

Page 50: a. -2; b. $+2$; c. -6; d. $+1$; e. -8; f. $+5$; g. $+13$; h. $+54$; i. $+1$; j. -7; k. -1; l. $+6$; m. $+13$; n. $+6$; o. -2; p. $+3 - +6 = -3$. The difference in temperature was 3°F. ; q. $-10 - -32 = +22$. The difference in altitude is 22 feet.

Adding Fractions

Page 51: a. $3/4$; b. $5/6$; c. $5/8$; d. $4/5$; e. $7/12$; f. $5/9$; g. $7/10$; h. $2/2$ or 1; i. $13/14$; j. $6/7$; k. $3/4$; l. $6/8$ or $3/4$; m. $3/5 + 1/5 = 4/5$. $4/5$ of the houses are painted white or yellow.

Page 52: a. $3/6$ or $1/2$; b. $7/9$; c. $5/10$ or $1/2$; d. $10/12$ or $5/6$; e. $9/12$ or $3/4$; f. $11/12$; g. $97/100$; h. $7/16$; i. $4/6$ or $2/3$; j. $1/2 + 1/3 = 5/6$. Nancy did $5/6$ of her homework before she went home.

Subtracting Fractions

Page 53: a. $1/4$; b. $3/10$; c. $4/7$; d. $1/14$; e. $3/12$ or $1/4$; f. $1/9$; g. $2/12$ or $1/6$; h. $5/20$ or $1/4$; i. $13/32$; j. $2/7$; k. $37/100$; l. $4/11$; m. $3/8 - 2/8 = 1/8$. $1/8$ of the pizza is left.

Page 54: a. $\frac{1}{10}$; b. $\frac{1}{4}$; c. $\frac{1}{8}$; d. $\frac{2}{6}$ or $\frac{1}{3}$; e. $\frac{5}{9}$; f. $\frac{1}{6}$; g. $\frac{7}{100}$; h. $\frac{3}{12}$ or $\frac{1}{4}$; i. $\frac{3}{16}$; j. $\frac{1}{3} - \frac{1}{4} = \frac{1}{12}$. $\frac{1}{12}$ of the house was left to paint.

Adding Mixed Numbers

Page 55: a. $7\frac{3}{4}$; b. $13\frac{4}{5}$; c. $22\frac{11}{12}$; d. $18\frac{3}{8}$; e. $9\frac{7}{10}$; f. 3; g. $8\frac{2}{4}$ or $8\frac{1}{2}$; h. $12\frac{5}{7}$; i. $6\frac{14}{15}$; j. $21\frac{17}{25}$; k. $40\frac{93}{100}$; l. $12\frac{4}{6}$ or $12\frac{2}{3}$; m. $2\frac{2}{4} + 1\frac{1}{4} = 3\frac{3}{4}$. Brenda used $3\frac{3}{4}$ cups of sugar.

Page 56: a. $4\frac{3}{4}$; b. $8\frac{2}{15}$; c. $20\frac{1}{12}$; d. $70\frac{14}{20}$ or $70\frac{7}{10}$; e. $16\frac{3}{6}$ or $16\frac{1}{2}$; f. $9\frac{3}{15}$ or $9\frac{1}{5}$; g. $9\frac{79}{100}$; h. $40\frac{7}{15}$; i. $4\frac{11}{12}$; j. $4\frac{3}{4} + 2\frac{2}{3} = 7\frac{5}{12}$. Mark spent $7\frac{5}{12}$ hours cleaning on Saturday.

Subtracting Mixed Numbers

Page 57: a. $\frac{2}{4}$ or $\frac{1}{2}$; b. $2\frac{2}{5}$; c. $2\frac{10}{12}$ or $2\frac{5}{6}$; d. $6\frac{6}{8}$ or $6\frac{3}{4}$; e. $\frac{4}{10}$ or $\frac{2}{5}$; f. $1\frac{2}{3}$; g. $4\frac{3}{8}$; h. $2\frac{1}{2}$; i. $1\frac{3}{6}$ or $1\frac{1}{2}$; j. $1\frac{3}{14}$; k. $3\frac{1}{4}$; l. $\frac{5}{50}$ or $\frac{1}{10}$

Page 58: a. $\frac{2}{4}$ or $\frac{1}{2}$; b. $\frac{12}{5}$ or $2\frac{2}{5}$; c. $\frac{34}{12}$ or $2\frac{10}{12}$ or $2\frac{5}{6}$; d. $\frac{35}{8}$ or $4\frac{3}{8}$; e. $\frac{5}{2}$ or $2\frac{1}{2}$; f. $\frac{9}{6}$ or $1\frac{3}{6}$ or $1\frac{1}{2}$; g. $14\frac{1}{2} - 12\frac{1}{3} = 2\frac{1}{6}$. Ella brought in $2\frac{1}{6}$ pounds more than Boyd.