Table of Contents

Introduction 4
Common Core State Standards Correlation 5

Student Practice Pages

Numbers

Numbers to 9,999 7
Place Value 0 – 9,999 8
Ordering Numbers 9
Counting by Thousands 10
Expanding 4-Digit Numbers 11
Ordinal Numbers 12
Doubling and Halving 13
Less Than and Greater Than 14
Number Patterns 15

Addition

Adding to 99 16
Adding to 999 17
Adding to 9,999 18
Adding with Regrouping to 999 19
Adding Three Numbers 20
Adding Three or More Numbers 21
Rounding Numbers 22

Subtraction

Subtracting 2-Digit Numbers without Regrouping 23
Subtracting with Regrouping 24
Subtracting 3-Digit Numbers without Regrouping 25
Subtracting 3- Digit Numbers with Regrouping 26
Subtracting without Regrouping to 9,999 27
Subtracting with Regrouping to 9,999 28
Rounding Numbers and Estimating 29

Multiplication, Factors, and Special Numbers

Multiplication with Modeling and Mental Strategies 30
Reasoning with Numbers 31
Multiplication (× 2, × 4, and × 8) 32
Multiplication (× 5 and × 10) 33
Multiplication (× 3, × 6, and × 9) 34
Multiplication (× 7, × 8, and × 9) 35
Multiplication 36
Square and Triangular Numbers 37
Multiples 38
Factors 39
Multiplication Strategies 40
Multiplication by Tens 41
Extended Multiplication 42

Division

Division 43
Division Problems and Remainders 44
Division with Multiplication Grid 45
Estimation with Division 46
Division with Remainders 47
Division Practice 48

Multiplication and Division

Multiplication and Division 49
Inverse Operations 50

Number Lines, Numbers, and Patterns

Number Lines 51
Prime and Composite Numbers 52
1-Step and 2-Step Rules 53

Calculator Use

Calculator Addition and Subtraction 54
Calculator Multiplication and Division 55

Fractions

Fraction Names 56
Fractions 57
Comparing Fractions 58
Equivalent Fractions 59
Mixed Numbers 60

Decimals

Hundredths 61
Tenths 62
Decimals — Place Value 63
Decimals 64
Comparing Decimals 65
Decimals with Whole Numbers 66
Fractions and Decimals 67
Decimal Addition 68
Decimal Subtraction 69
Decimal Addition and Subtraction 70
Decimal Multiplication and Division (Calculator) 71

Table of Contents

Percentages
Simple Percentages 72
Percentages 73
Fractions, Decimals, and Percentages 74

Money
Use of Money 75
Money Addition and Subtraction 76
Money Multiplication and Division 77
Money Rounding and Estimation 78

Symmetry and Shapes
Symmetry 79
Shapes 80
Plane Shapes 81
Regular and Irregular Shapes 82

Angles and Lines
Angles in Real Life 83
Comparing Angles 84
Angles — Right, Obtuse, and Acute 85
Drawing Angles 86
Parallel and Perpendicular Lines 87

Shapes and 3D Objects
3D Objects 88
Drawing 3D Objects 89
Triangles and Quadrilaterals 90
Polygons 91
Prisms 92
Cylinders, Cones, and Spheres 93
Pyramids 94
Nets and 3D Objects 95

Movement of Shapes
Movement of Shapes 96
Tessellation 97

Position
Position — Giving Directions 98
Compass Directions 99
Coordinates 100
Grids 101

Puzzles
Puzzles 102
Paper Folding and Shapes 103

Time
Analog Time 104
Digital and Analog Time 105
Calendars 106
Time Lines and Timetables 107

Length
Length 108
Length with Decimals 109

Perimeter, Area, and Weight
Perimeter 110
Area 111
Area and Perimeter 112
Weight in Ounces and Pounds 113

Arrangements and Probability
Arrangements 114
Probability 115

Graphs and Data
Picture Graphs 116
Tally Marks and Tables 117
Reading Graphs and Tables 118
Working with Tables 119
Bar Graphs 120
Surveys and Collecting Data 121

Problem Solving and Practice
Problem Solving 122
Mixed Practice 123
Place Value Practice 124
Addition and Subtraction Practice 125
Multiplication and Division Practice 126
Fractions Practice 127
Decimals Practice 128

Answer Key 129

Subtracting with Regrouping to 9,999

❶ Subtract the following.

a. 4,365 − 1,285

b. 5,472 − 4,319

c. 6,719 − 3,273

d. 3,000 − 1,451

e. 2,637 − 1,908

f. 8,754 − 5,276

❷ Find the following.

a. 6,050 minus 2,351. _____

b. 7,125 take away 2,346. _____

c. 8,943 subtract 3,785. _____

d. The difference between 4,637 and 1,952. _____

e. Subtract 4,259 from 6,463. _____

f. 9,221 less 4,635. _____

❸ Find the difference between 5,000 and:

a. 2,451. _____

b. 1,985. _____

c. 4,201. _____

d. 3,625. _____

❹ Subtract the following amounts.

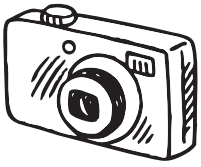
a. $3,250 – $1,985 = _____

b. $9,900 – $6,095 = _____

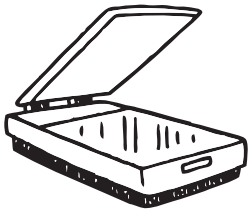
c. $4,250 – $1,475 = _____

d. $5,895 – $3,956 = _____

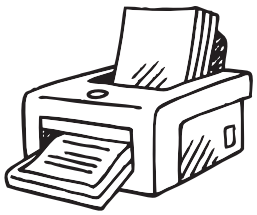
❺ **a.** Find the total cost of the below items. _____



camera
$299



scanner
$975



printer
$1,250

b. If I had $7,000, how much would I have after buying all of the above items? _____

❻ Find the difference between: three thousand, one hundred seven and one thousand, two hundred fifty-nine. Write your answer in words.

_____

_____

Multiplication Strategies

❶ Large multiplication equations can be split into tens and ones components, each calculated and added together. Complete the following using this strategy.

a. 16 × 5
= (10 × 5) + (6 × 5)
= _____ + _____
= _____

b. 19 × 6
= (10 × 6) + (9 × 6)
= _____ + _____
= _____

c. 14 × 8
= (10 × 8) + (___ × ___)
= _____ + _____
= _____

❷ Multiplying with tens is the same as normal multiplication except a zero is added to the answer (e.g., 5 × 5 = 25 and 5 × 50 = 250). Complete each of the following using this strategy.

a. 70 × 5

b. 30 × 6

c. 60 × 8

d. 20 × 9

e. 80 × 4

f. 50 × 7

❸ Large multiplication equations can be split into smaller components when one of the factors is 2, so the concept of doubling can be used. Complete each of the following using this strategy.

a. 20 × 7
= 2 × 10 × 7
= 2 × _____
= _____

b. 14 × 6
= 2 × 7 × 6
= 2 × _____
= _____

c. 18 × 5
= 2 × ___ × 5
= 2 × _____
= _____

❹ Find the missing numbers.

a. 7 × 10 = _____

b. 9 x _____ = 63

c. _____ × 8 = 56

d. 6 × _____ = 42

e. _____ × 5 = 45

f. 5 × _____ = 0

❺ Multiplying with hundreds is the same as normal multiplication, except two zeros are added to the answer, e.g., 5 × 5 = 25 and 5 × 500 = 2,500. Complete each of the following using this strategy.

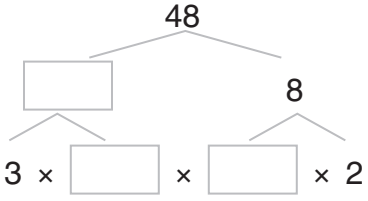
a. 400 × 8

b. 500 × 6

c. 900 × 3

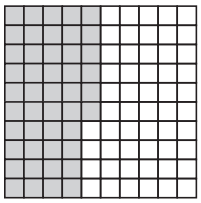
d. 700 × 4

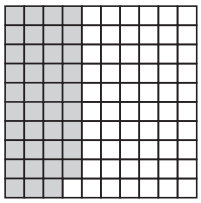
❻ Complete the factor tree by filling in the missing factors.

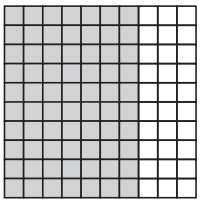


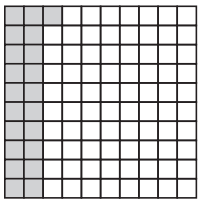
Simple Percentages

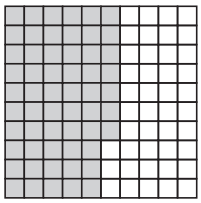
❶ What percentage of each hundreds square is shaded?

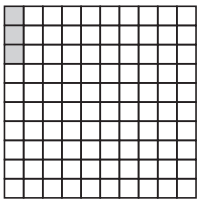
a.  _____

b.  _____

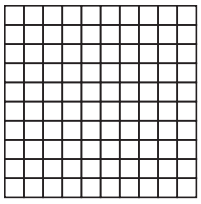
c.  _____

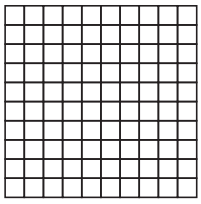
d.  _____

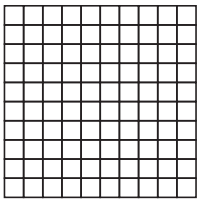
e.  _____

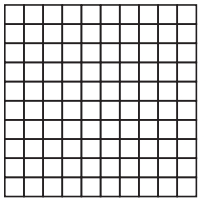
f.  _____

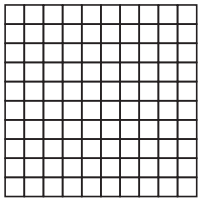
❷ For each hundreds square, shade the given percentage.

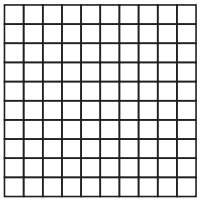
a. 64% 

b. 14% 

c. 32% 

d. 91% 

e. 85% 

f. 77% 

❸ Complete the following.

a. 10% means _____ out of 100.

b. 8% means _____ out of 100.

c. 20% means _____ out of 100.

d. _____ means 50 out of 100.

e. _____ means 75 out of 100.

f. _____ means 90 out of 100.

❹ Write the percentage that means the following.

a. one-half _____

b. a quarter _____

c. one-tenth _____

d. 80 out of 100 _____

e. 63 out of 100 _____

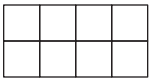
f. 14 out of 100 _____

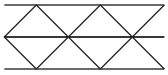
❺ There were 100 students at the school and 25% were boys. How many students were girls? _____

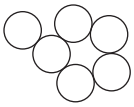
❻ Eighty-four people came to Summer and Tim's wedding. If 100 people were invited, what percentage of people did not come to the wedding? _____

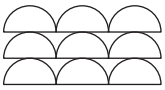
Tessellation

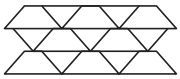
❶ A **tessellation** is a pattern of one or more identical shapes that fit together without any gaps or overlaps. Do these shapes tessellate? Write *yes* or *no*.

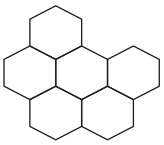
a.  _____

b.  _____

c.  _____

d.  _____

e.  _____

f.  _____

❷ Do these shapes tessellate? Write *yes* or *no*.

a.  _____

b.  _____

c.  _____

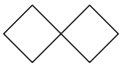
d.  _____

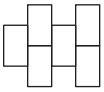
e.  _____

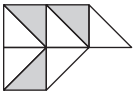
f.  _____

❸ Continue the following tessellations.

a. 

b. 

c. 

d. 

❹ Create tessellations using the following shapes.

a. 

b. 

c. 

d. 

❺ Draw a shape that will not tessellate.

❻ Create your own tessellation pattern.

Reading Graphs and Tables

❶ Use the graph to answer the following questions.

How many cars were parked in the lot on:

a. Tuesday? _____

b. Thursday? _____

c. Thursday and Friday? _____

What day(s) was the parking lot:

d. most full? _____

e. least full? _____

f. How many more cars on Monday than Thursday? _____

Day	Number of Cars in Parking Lot
Mon.	
Tue.	
Wed.	
Thur.	
Fri.	
 = 10 cars	

❷ Find the totals given that □ = 5 cards.

a.	Joe □□□□□□	
b.	Jenny □□□□□	
c.	James □□□□□□□	
d.	Jerry □□□□	
e.	Jodi □□□□□	
f.	Jack □□□	

❸ Complete the tally table.

Fruit	Tally	Total
apples	𝍸 𝍸 ||	**a.**
pears	**b.**	14
bananas	**c.**	23
oranges	𝍸 𝍸 𝍸 𝍸 |	**d.**
grapes	𝍸 𝍸 ||||	**e.**
plums	**f.**	18

❹ Of the people at the school carnival, how many were:

a. male? _____ **b.** female? _____

c. male parents? _____ **d.** female teachers? _____

e. students? _____ **f.** female students? _____

	Students	Teachers	Parents
Male	120	4	80
Female	100	6	90

❺ **a.** What was the total number of cars parked for the week in question 1?

_____

b. Who had the most cards in question 2?

_____

c. What was the total surveyed in question 3? _____

d. What was the total number of parents at the carnival in question 4?

_____

❻ In the space at the right, draw a graph showing the following information.

Pets	Number
dog	25
cat	30
rabbit	15
bird	20
fish	5
other	5