Mathematics Spiral Review Quarter 1.1
Grade 5

Basic Computation **(4.NBT.4)**

378 + 1,761 = _____

Place Value **(4.NBT.2)**

Write 538 using number names and expanded form.

Estimation **(4.NBT.3)**

Round to the nearest hundred:

329 _____ 6,582 _____

750 _____ 88 _____

Skill of the Week **(4.NBT.5)**

Show how you would solve 48 x 76 using an area model.

Drawing/Picture **(4.NF.1)**

Use a visual fraction model to show how 3/4 and 6/8 have the same value.

Measurement **(4.MD.3)**

Find the area of a room that has a length of 23 meters and a width of 9 meters.

Mathematics Spiral Review Quarter 1.1 Key
Grade 5

Basic Computation (4.NBT.4)

378 + 1,761 = 2,139

This computation requires regrouping as well as lining up place value positions correctly.

Place Value (4.NBT.2)

Write 538 using number names and expanded form.

Five hundred thirty-eight

500 + 30 + 8 OR (5 x 100) + (3 x 10) + (8 x 1)

Estimation (4.NBT.3)

Round to the nearest hundred:

329 → 300 **6,582 → 6,600**

750 → 800 **88 → 100**

Skill of the Week (4.NBT.5)

Show how you would solve 48 x 76 using an area model.

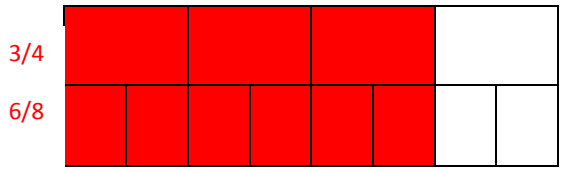
48 x 76 = 3,648 Check the area model for the subsections of 2800, 240, 560, and 48

	70	+	6
40	40 x 70=2800		40 x 6=240
+			
8	8 x 70= 560		8 x 6= 48

Drawing/Picture (4.NF.1)

Use a visual fraction model to show how 3/4 and 6/8 have the same value.

Drawings will vary, but each should show that every ¼ piece is subdivided into 2 smaller pieces.



Measurement (4.MD.3)

Find the area of a room that has a length of 23 meters and a width of 9 meters.

23 meters x 9 meters = 207 square meters.

Mathematics Spiral Review Quarter 1.2
Grade 5

Basic Computation **(4.NBT.4)**

1,750 - 342 = _____

Place Value **(4.NBT.2)**

Write the following in standard form:

Eight hundred seventy-four thousand, five hundred sixty-one

Twenty-five thousand, eight hundred ten

Estimation **(4.NBT.3)**

While training for a marathon, Crista ran 36 miles one week, 43 miles the second week, and 33 miles a third week. About how many miles did she run?

Skill of the Week **(5.NBT.5)**

Using the standard algorithm, multiply:

64 x 91 = _____

527 x 83 = _____

Drawing/Picture **(4.NF.7)**

Draw a model to prove that 0.4 < 0.7

Measurement **(4.MD.2)**

Complete the following tables:

1 quart = ____ pints =____ cups =____ ounces

3 quarts = ____ pints =____ cups =____ ounces

1 gallon= ____quarts = ____ pints = ____ cups

Mathematics Spiral Review Quarter 1.2 key
Grade 5

Basic Computation (4.NBT.4)

1,750 - 342 = 1,408

Look for errors when subtracting in the ones place. They will need to ungroup the tens place.

Place Value (4.NBT.2)

Write the following in standard form:

Eight hundred seventy-four thousand, five hundred sixty-one 874,561

Twenty-five thousand, eight hundred ten 25,810

Estimation (4.NBT.3)

While training for a marathon, Crista ran 36 miles one week, 43 miles the second week, and 33 miles a third week. About how many miles did she run? **Answers will vary. Using the rules of rounding, you would change the values to 40, 40, and 30 for an estimate of 110 miles. If a student chose to use front end estimation, the values would be 30, 40, and 30 for an estimate of 100 miles.**

Skill of the Week (5.NBT.5)

Using the standard algorithm, multiply:

64 x 91 = 5,824 527 x 83 = 43,741

Students may choose to use the commutative property to show 91 x 64 when setting up their work.

Drawing/Picture (4.NF.7)

Draw a model to prove that 0.4 < 0.7

Answers will vary, possibly rectangles or square subdivided in 10 pieces with 4 parts and 7 parts shaded. A number line in tenths would also work.

Measurement (4.MD.2)

Complete the following tables:

1 quart = 2 pints = 4 cups = 32 ounces

3 quarts = 6 pints = 12 cups = 96 ounces

1 gallon = 4 quarts = 8 pints = 16 cups

Mathematics Spiral Review Quarter 1.3
Grade 5

Basic Computation **(5.NBT.6)**

Solve:

8,164 ÷ 4 =

Place Value **(4.NBT.2)**

A number has a 7 in the hundreds place, a 4 in the thousands place, a 3 in the ones place, and a 9 in the tens place. Tell what the number is using base ten numerals, number names, and expanded form.

Estimation **(4.NBT.3 and 5.NBT.5)**

Round to the largest place value position to estimate the size of the product, then solve to find the actual value. 682 x 29 =_____

Skill of the Week **(5.NBT.6)**

The cafeteria was making soup for 762 students. If each pot of soup served 24 students, how many pots of soup would they need to make? How do you interpret the remainder?

* Whole Numbers Only * Round Up * Fractions * Decimal Numbers * Remainder Only

Drawing/Picture **(4.MD.4)**

Make a line plot to show the following amounts of rain in inches on seven days in the month of August:

1/8, 1/4, 1/4, 1/2, 3/4, 1/8, 1/4

Measurement **(4.MD.4)**

Use your drawing of the line plot to find the total amount of rain during the seven days in August.

Mathematics Spiral Review Quarter 1.3 key
Grade 5

Basic Computation (5.NBT.6)

Solve:

8,164 ÷ 4 = **2,041**

This problem has a zero in the quotient. Students often leave out the zero.

Place Value (4.NBT.2)

A number has a 7 in the hundreds place, a 4 in the thousands place, a 3 in the ones place, and a 9 in the tens place. Tell what the number is using base ten numerals, number names, and expanded form.

4,793 Four thousand, seven hundred ninety-three

4,000 + 700 + 90 + 3 OR 4 x 1,000 + 7 x 100 + 9 x 10 + 3 x 1

Estimation (4.NBT.3 and 5.NBT.5)

Round to the largest place value position to estimate the size of the product, then solve to find the actual value.

700 x 30 = 21,000

682 x 29 = **19,778**

Skill of the Week (5.NBT.6)

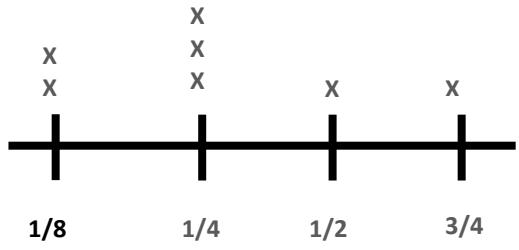
The cafeteria was making soup for 762 students. If each pot of soup served 24 students, how many pots of soup would they need to make? How do you interpret the remainder? **The computation answer is 31 r 18, but you round up to 32 pans or 18 students won't get any soup.**

Drawing/Picture (4.MD.4)

Make a line plot to show the following amounts of rain in inches on seven days in the month of August:

1/8, 1/4, 1/4, 1/2, 3/4, 1/8, 1/4

The line plot should show two x's above 1/8, three x's above 1/4, one x above 1/2, and one x above3/4.



Measurement (4.MD.4)

Use your drawing of the line plot to find the total amount of rain during the seven days in August.

2 2/8 inches or 2 1/4 inches

Mathematics Spiral Review Quarter 1.4
Grade 5

Basic Computation **(5.NBT.5)**

Solve:

409 x 63 =

Place Value **(5.NBT.3b)**

Compare the following values using the <, >, or = symbol:

1) 463.2___ 436.9 2) 5.602 ___ 5.620

3) 65.4 ___ 65.400 4) 9.6 ___ 9.37

Estimation **(5.NBT.6)**

A class donated 929 pop tops to the student council. If they were shared equally among 32 bags, *about* how many pop tops would each bag have?

Skill of the Week **(5.NBT.3)**

Three kids finished the 50 meter dash and were comparing times. Ezra finished in 13.4 seconds, Avi finished in 13.195 seconds, and Tariq finished in 13.25 seconds. In what order did they finish the race?

Drawing/Picture **(4.G.2)**

Draw and name two polygons that have both parallel and perpendicular lines.

Measurement **(4.MD.3)**

Use a formula for perimeter to find the total amount of fencing needed to enclose a garden that is 17 meters by 12 meters.

Mathematics Spiral Review Quarter 1.4 key
Grade 5

Basic Computation (5.NBT.5)

Solve:

409 x 63 = **25,767**

Look for errors when multiplying with a zero in the factor.

Place Value (5.NBT.3b)

Compare the following values using the <, >, or = symbol:

1) 463.2 **>** 436.9 2) 5.602 **<** 5.620

3) 65.4 **=** 65.400 4) 9.6 **>** 9.37

Estimation (5.NBT.6)

A class donated 929 pop tops to the student council. If they were shared equally among 32 bags, *about* how many pop tops would each bag have?

There are multiple strategies:

32 x 20 = 640, 32 x 30 = 960, so a quotient close to 30 would be reasonable. You could also use compatible numbers and think that 900÷30 =30.

Skill of the Week (5.NBT.3)

Three kids finished the 50 meter dash and were comparing times. Ezra finished in 13.4 seconds, Avi finished in 13.195 seconds, and Tariq finished in 13.25 seconds. In what order did they finish the race? **Avi in first, Tariq in second, Ezra in third.**

13.195 < 13.25 < 13.4

Drawing/Picture (4.G.2)

Draw and name two polygons that have both parallel and perpendicular lines.

Possibilities include a square, a rectangle, and a right trapezoid. *Other pentagons, hexagons, etc. *could* also work if they draw them correctly.

Measurement (4.MD.3)

Use a formula for perimeter to find the total amount of fencing needed to enclose a garden that is 17 meters by 12 meters. **58 meters (formulas may vary)**

P = 2 (l + w) 58 = 2(17 +12)

P = 2l + 2w 58 = 2*17 + 2*12

P = l + l + w + w 58 = 17+17+12+12

Mathematics Spiral Review Quarter 1.5
Grade 5

Basic Computation **(5.NBT.7)**

Solve:

475.6 – 39.28 =

Place Value **(5.NBT.3a)**

Write the following values using base ten numerals:
fifty-four thousandths
thirteen tenths
two hundred eighty-four hundredths

Estimation **(5.NBT.4)**

Jazmin had $50.00 to spend on an outfit for her daughter's recital. The shoes cost $11.25, the shirt cost $21.25, and the skirt cost $17.95. She thinks she has enough to make the purchase. How could she have estimated to think this? Does she really have enough?

Skill of the Week **(5.NBT.2)**

Multiply 52.6 by 10, 100, and 1,000.

Divide 52.6 by 10, 100, and 1,000.

How would you write 10, 100, and 1,000 using exponents?

Drawing/Picture **(4.G.2)**

Draw a trapezoid and a parallelogram. Use your understanding of parallel lines to explain the likenesses and differences between them.

Measurement **(4.MD.2)**

Riley and Meagan each ran ½ of a 5 km race. How many meters did each of the girls run?

Mathematics Spiral Review Quarter 1.5 key
Grade 5

Basic Computation (5.NBT.7)

Solve:

475.6 – 39.28 = 436.32

Students will need to line up the place value positions correctly, use equivalent decimals, as well as ungroup.

Place Value (5.NBT.3a)

Write the following values using base ten numerals:
fifty-four thousandths = 0.054
thirteen tenths = 1.3
two hundred eighty-four hundredths = 2.84
These unusually written values are often confusing for students.

Estimation (5.NBT.4)

Jazmin had $50.00 to spend on an outfit for her daughter's recital. The shoes cost $11.25, the shirt cost $21.25, and the skirt cost $17.95. She thinks she has enough to make the purchase. How could she have estimated to think this?

She could have used front end estimation to get $40.00 or rounded to the nearest dollar to get $50.00. The actual total is $50.45.

Skill of the Week (5.NBT.2)

Multiply 52.6 by 10, 100, and 1,000.
Divide 52.6 by 10, 100, and 1,000.
How would you write 10, 100, and 1,000 using exponents?

52.6 x 10 = 526, 52.6 x 100 = 5,260, and 52.6 x 1,000 =52,600

52.6 ÷10 = 5.26, 52.6 ÷100 = 0.526, and 52.6 ÷ 1,000 =0.0526

10 = 10^1, 100 = 10^2, 1,000 = 10^3

Drawing/Picture (4.G.2)

Draw a trapezoid and a parallelogram. Use your understanding of parallel lines to explain the likenesses and differences between them.

Both of these polygons have sides that are parallel (will never intersect) but the trapezoid only has one pair and the parallelogram has two pairs.

Measurement (4.MD.2)

Riley and Meagan each ran ½ of a 5 km race. How many meters did each of the girls run? 5 km = 5,000 meters

5,000 meters ÷ 2 = 2,500 meters each