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GRADE 5
MODULE 1

Name _____   Date _____

Use the place value chart and arrows to show how the value of each digit changes.

    a.   6.671 × 100 = _____

				●			

    b.   684 ÷ 1,000 = _____

				●			

Lesson 1:   Reason concretely and pictorially using place value understanding to   **1**
relate adjacent base ten units from millions to thousandths.

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Name _____   Date _____

1. Solve.

    a.   32.1 × 10 = _____

    b.   3632.1 ÷ 10 = _____

2. Solve.

    a.   455 × 1,000 = _____

    b.   455 ÷ 1,000 = _____

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Lesson 2:   Reason abstractly using place value understanding to relate adjacent
base ten units from millions to thousandths.

1

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Name _____   Date _____

1. Write the following in exponential form and as a multiplication sentence using only 10 as a factor (e.g., $100 = 10^2 = 10 \times 10$).

    a. 1,000   = _____ = _____

    b. 100×100 = _____ = _____

2. Write the following in standard form (e.g., $4 \times 10^2 = 400$).

    a. $3 \times 10^2 =$ _____

    c. $800 \div 10^3 =$ _____

    b. $2.16 \times 10^4 =$ _____

    d. $754.2 \div 10^2 =$ _____

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Lesson 3:   Use exponents to name place value units, and explain patterns in the placement of the decimal point.

1

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Name _____   Date _____

1. Convert using an equation with an exponent.

    a. 2 meters to centimeters   2 m = _____ cm   _____

    b. 40 millimeters to meters   40 mm = _____ m   _____

2. Read each aloud as you write the equivalent measures.

    a. A piece of fabric measures 3.9 meters. Express this length in centimeters.

    b. Ms. Ramos's thumb measures 4 centimeters. Express this length in meters.

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Lesson 4:   Use exponents to denote powers of 10 with application to metric conversions.

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1

Name _____   Date _____

1. Express nine thousandths as a decimal.

2. Express twenty-nine thousandths as a fraction.

3. Express 24.357 in words.

    a. Write the expanded form using fractions or decimals.

    b. Express in unit form.

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Lesson 5:   Name decimal fractions in expanded, unit, and word forms by
applying place value reasoning.

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1

Name _____   Date _____

1. Show the numbers on the place value chart using digits. Use >, <, or = to compare. Explain your thinking in the space to the right.

    167.4 ◯ 167.462

			●		
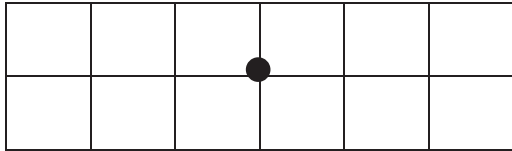
2. Use >, <, and = to compare the numbers.

    32.725 ◯ 32.735

3. Arrange the numbers in decreasing order.

    76.342   76.332   76.232   76.343

    _____

EUREKA MATH   **Lesson 6:**   Compare decimal fractions to the thousandths using like units, and express comparisons with >, <, =.   **1**

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Name _____   Date _____

Use the table to round the number to the given places. Label the number lines, and circle the rounded value.

8.546

Tens	Ones	•	Tenths	Hundredths	Thousandths
	8	•	5	4	6
		•	85	4	6
		•		854	6
		•			8546

a. Hundredths

b. Tens

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Lesson 7:   Round a given decimal to any place using place value understanding
and the vertical number line.

1

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Name _____   Date _____

Round the quantity to the given place value. Draw number lines to explain your thinking. Circle the rounded value on the number line.

a. 13.989 to the nearest tenth

b. 382.993 to nearest hundredth

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Lesson 8:   Round a given decimal to any place using place value understanding and the vertical number line.

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1

Name _____   Date _____

1. Solve.

    a.   4 hundredths + 8 hundredths = _____ hundredths = _____ tenth(s) _____ hundredths

    b.   64 hundredths + 8 hundredths = _____ hundredths = _____ tenths _____ hundredths

2. Solve using the standard algorithm.

a. 2.40 + 1.8 = _____	b. 36.25 + 8.67 = _____

EUREKA MATH™   **Lesson 9:**   Add decimals using place value strategies, and relate those strategies
to a written method.   **1**

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Name _____ Date _____

1. Subtract.

    1.7 − 0.8 = _____ tenths − _____ tenths = _____ tenths = _____

2. Subtract vertically, showing all work.

    a. 84.637 − 28.56 = _____

    b. 7 − 0.35 = _____

Lesson 10: Subtract decimals using place value strategies, and relate those
strategies to a written method.

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1

Name _____   Date _____

1. Solve by drawing disks on a place value chart. Write an equation, and express the product in standard form.

    4 copies of 3 tenths

2. Complete the area model, and then find the product.

    3 × 9.63

	_____	_____	_____
_____	3 × _____ ones	3 × _____ tenths	3 × _____ hundredths

Lesson 11:   Multiply a decimal fraction by single-digit whole numbers, relate to a
written method through application of the area model and place value
understanding, and explain the reasoning used.

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1

Name _____   Date _____

1. Use estimation to choose the correct value for each expression.

    a. 5.1×2 0.102   1.02   10.2   102

    b. 4×8.93 3.572   35.72   357.2   3572

2. Estimate the answer for 7.13×6. Explain your reasoning using words, pictures, or numbers.

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Lesson 12:   Multiply a decimal fraction by single-digit whole numbers, including
using estimation to confirm the placement of the decimal point.

1

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Name _____   Date _____

1. Complete the sentences with the correct number of units, and then complete the equation.

    a. 2 groups of _____ tenths is 1.8. $1.8 \div 2 =$ _____

    b. 4 groups of _____ hundredths is 0.32. $0.32 \div 4 =$ _____

    c. 7 groups of _____ thousandths is 0.021. $0.021 \div 7 =$ _____

2. Complete the number sentence. Express the quotient in unit form and then in standard form.

    a. $4.5 \div 5 =$ _____ tenths $\div 5 =$ _____ tenths = _____

    b. $6.12 \div 6 =$ _____ ones $\div 6$ + _____ hundredths $\div 6$

        = _____ ones + _____ hundredths

        = _____

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Lesson 13:   Divide decimals by single-digit whole numbers involving easily   **1**
                identifiable multiples using place value understanding and relate
                to a written method.

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Name _____ Date _____

1. Draw place value disks on the place value chart to solve. Show each step using the standard algorithm.

   5.372 ÷ 2 = _____

Ones	Tenths	Hundredths	Thousandths

$$2\overline{)5.372}$$

2. Solve using the standard algorithm.

   0.576 ÷ 4 = _____

Lesson 14: Divide decimals with a remainder using place value understanding and relate to a written method.

1

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Name _____   Date _____

1. Draw place value disks on the place value chart to solve. Show each step in the standard algorithm.

    $0.9 \div 4 =$ _____

Ones	•	Tenths	Hundredths	Thousandths

$$4\overline{)0.9}$$

2. Solve using the standard algorithm.

    $9.8 \div 5 =$

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Lesson 15:   Divide decimals using place value understanding, including remainders
in the smallest unit.

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1

Name _____   Date _____

Write a word problem with two questions that matches the tape diagram below, and then solve.

16.23 lb

Weight of John's Dog

?

Weight of Jim's Dog   ?