Operations with Whole Numbers and Decimals

Lesson	Resources
CCSS: 5.NBT.5, 5.NBT.6, 5.NBT.7, 6.NS.2, 6.NS.3 **TEKS:** Grade 5 (3b, 3c, 3d, 3e, 3f, 3g)	**15 DAY UNIT**
Unit Prep (pgs. 6 – 12)	• Weekly Warm Up Sheet • Exit Tickets • Lesson Plan Template
(1) Operations with Whole Numbers (pgs. 13 – 19)	• Two Warm Ups • Whole Number Operations Graphic Organizer • Whole Number Operations Practice (2 sheets) • Whole Number Operations Error Analysis • Two Exit Tickets
(2) Place Value and Estimating with Decimals (pgs. 20 – 26)	• Two Warm Ups • Place Value Review Charts • Estimating with Decimals Review Notes • Place Value and Estimating with Decimals Practice • Whole Number Operations and Place Value Quiz • Two Exit Tickets
(3) Adding and Subtracting Decimals (pgs. 27 – 35)	• Two Warm Ups • Adding and Subtracting Decimals Notes • Adding and Subtracting Decimals Fold and Flip Notes • Adding and Subtracting Decimals Practice • Two Exit Tickets
(4) Multiplying Decimals (pgs. 36 – 45)	• Two Warm Ups • Multiplying Decimals Notes • Multiplying Decimals Fold and Flip Notes • Multiplying Decimals Practice • Adding, Subtracting and Multiplying Decimals Quiz • Two Exit Tickets
(5) Dividing Decimals (pgs. 46 – 56)	• Two Warm Ups • Dividing Decimals by Whole Numbers Notes • Dividing Decimals by Decimals Notes • Dividing Decimals Fold and Flip Notes • Dividing Decimals by Whole Numbers Practice • Dividing Decimals by Decimals Practice • Two Exit Tickets
(6) Decimal Operations Applications (pgs. 57 – 64)	• Two Warm Ups • Decimal Operations Word Problems Notes • Decimal Operations Word Problems Practice (2 pages) • Dividing Decimals and Decimal Applications Quiz • Two Exit Tickets
End of Unit (pgs. 65 – 69)	• Study Guide • Unit Exam

Name_____
Date _____

Lesson 1 : Operations with Whole N...

Skill : Rounding Whole Numbers

1. Round to the nearest ten. 4,335	2. Round to the nearest hund... 45,837
3. Round to the nearest ten thousand. 102,408	4. Round to the nearest ten... 23,753
5. Round to the nearest tenth. 42.897	6. Round to the nearest hund... 1.998

Name_____
Date _____

Lesson 2 : Place Value and Decimal Estimation

Skill : Whole Number Operations

1. Find the sum. 2,374 + 74,342	2. Find the quotient. 10,456 ÷ 4
3. Find the difference. 408 – 287	4. Find the product. 3,400 • 25
5. Find the sum. 1,892 + 7,234	6. Find the product. 6,200 • 12

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Name_____
Date _____

Lesson 1 : Operations with Whole N...

Skill : Operations with Whole Numbers

1. Find the sum. 82,374 + 349	2. Find the sum. 457 + 2,384
3. Find the product.	4. Find the quotient.

Name_____
Date _____

Lesson 2 : Place Value and Decimal Estimation

Skill : Place Value

1. Identify the place value of the underlined digit. 4,3<u>3</u>5	2. Identify the place value of the underlined digit. 4<u>5</u>,837
3. ...place value of the ...git. 1<u>0</u>2,408	4. Identify the place value of the underlined digit. 23,75<u>3</u>

Name_____
Date _____

Lesson 3 : Adding and Subtracting Decimals

Skill : Adding Decimals

1. Find the sum. 82.374 + 34.9	2. Find the sum. 4.57 + 2.384
3. Find the sum. 3.12 + 9.08	4. Find the sum. 13.64 + 1.998
5. Find the sum. 1.92 + 72.34	6. Find the sum. 126.23 + 34.98

Name_____
Date _____

Lesson 4 : Multiplying Decimals

Skill : Adding and Decimals

1. Find the sum. 123.87 + 4.33	2. Find the sum. 83.4 + 342.83
3. Find the sum.	4. Find the difference. 19.004 – 15.87
...e difference. 72.83 – 2.004	

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Name_____
Date _____

Lesson 3 : Adding

Skill : S...

1. Find the difference. 83.2 – 43.9	
3. Find...	

Name_____
Date _____

Lesson 6 : Decimal Operations Applications

Skill : Adding, Subtracting, Multiplying and Dividing Decimals

1. Find the sum. 108.94 + 42.8	2. Find the quotient. 14.574 ÷ 4.2
3. Find the difference. 109.28 – 2.104	4. Find the product. 19.5 • 5.3
5. Find the difference. 42.7 – 18.75	6. Find the quotient. 25.5 ÷ 3.4

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...g Decimals

...imals

...e product. 15.7 • 3.1	

...e product.

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1. Nina is buying four movie tickets for $12 each, plus three popcorns for $6 each. How much does she spend?

2. Gavin has a $50 gift card. He spends $4 on a cup of coffee, $12 on a book and $28 on a new shirt. How much is left on his gift card?

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Warm Ups

Operations with Whole Numbers

1. Find the sum. 14,578 + 8,992	2. Find the sum. 593 + 23,748
3. Find the difference. 9,332 – 766	4. Find the difference. 20,450 – 10,855
5. Find the product. 189 x 23	6. Find the quotient. 2,080 ÷ 65

Place Value and Decimal Estimation

1. What is the value of the underlined digit? 10<u>3</u>,495.348	2. What is the value of the underlined digit? 1,3984.90<u>4</u>
3. Round to the nearest hundredth. 14,594.385	4. Round to the nearest ten. 103,485.290
5. Round to the nearest whole number. 14,803.35	6. Round to the nearest tenth 683.573

Operations with Whole Numbers

1. Find the sum. 984 + 34,235	2. Find the difference. 743 – 338
3. Find the product.	4. Find the product.

Place Value and Decimal Estimation

1. Round to the nearest tenth. 84,594.133	2. Round to the nearest hundred. 16,485.33
...nearest whole number. 18.434 + 0.897	4. Estimate to the nearest tenth. 165.84 + 894.332

Adding and Subtracting Decimals

1. Find the sum. 14.35 + 9.9	2. Find the sum. 1.984 + 912.43
3. Find the sum. 35.8 + 20.91	4. Find the sum. 6.288 + 16.15
5. Find the sum. 39.5 + 42.367	6. Find the sum. 29.82 + 8.401

Multiplying Decimals

1. Find the product. 3.8 • 0.33	2. Find the product. 8.4 • 2.8
3. Find the product.	4. Find the product. 19.4 • 1.7

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1. Find the difference. 47.7 – 19.6	
3. Fin...	

Decimal Operations Applications

1. Jason ran 3.14 miles on Monday, 16.55 miles on Wednesday and 7.8 miles on Friday. How far did he run this week?	2. Ellie weighed 7.32 pounds when she was born. At one year old she weighed 25.2 pounds. How much weight did she gain during her first year?
3. Drake is building a birdhouse. He has a piece of wood that is 8.6 feet long. He needs to cut the wood into 12 equal pieces. How long will each piece be?	4. At the movies, a soda costs $4.95 and a bag of popcorn costs $8.75. Find the cost of two sodas and one bag of popcorn.

...e product.
22.7 • 5.1

...imals

...e product.
3.3 • 2.9

...e product.
4.3 • 11.2

Exit Tickets

$4.99 per yard and spool of ribbon for $5.50. How much did she altogether?

...among 6 children. How much candy did each child receive?

Decimal Estimation
NOTES

Rounding:

1. Underline the rounding place.
2. Circle the digit to the right of the rounding place.
3. If the circled digit is 0 – 4, keep the underlined number as it is and eliminate a_ the right of the underlined number (including the circled digit). If the circled d_ change the underlined number to the next highest number (or multiple of ter_ you are being asked to do).

Try it:

Round to the nearest tenth. 432.846	Round to the nearest whole _ 432.846

Whole Number Operations
GRAPHIC ORGANIZER

Things to Remember {Addition}	Things to Remember {Subtraction}

Example {Addition}   Example {Subtraction}

Adding and Subtracting Decimals
NOTES

Adding Decimals:

1. Write the problem vertically, lining up the decimals.
2. Add zeroes to fill in empty place values after the decimal.
3. Add.
4. Bring down the decimal into your answer.

Guided Practice:

77.843 + 9.45	146.9 + 32.87

Subtracting Decimals:

1. Write the problem vertically, lining up the decimals.
2. Add zeroes to fill in empty place values after the decimal.
3. Subtract – don't forget to borrow if necessary.

Multiplying Decimals
NOTES

The Steps:

1. Multiply without worrying about the decimal – yet.
2. Count the total number of decimal places in the factors.
3. Place the decimal point in the answer, using the same number of decimal places in the factors. Count from the left.

Guided Practice:

13.04 • 2.6

1. Multiply without worrying about the decimal – yet.
2. Count the total number of decimal places in the factors.
3. Place the decimal point in the answer, using the same number of decimal places in the factors. Count from the left.

Decimal Applications
NOTES

The Process :

❑ Understand : _____

❑ Plan : _____

❑ Solve : _____

❑ Answer : _____

❑ Check : _____

Guided practice :

Elisa went to the store to buy ingredients_ bough_ $1.9_ an_ the_

❑ Understand : _____

❑ Plan : _____

❑ Solve : _____

❑ Check : _____

2) 14.6 • 0.22

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Notes

Whole Number Operations PRACTICE

Name_____
Date _____

Directions : Solve each problem. Use your answers to complete the crossword puzzle.

1) $5,214 + 958$

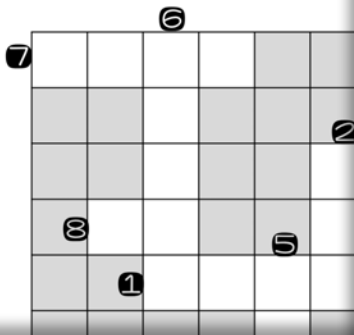2) $2,130 \div 15$

3) $4,340 \div 35$

4) 104×36

5) 163×45

6) $14,832 - 2,756$

Adding and Subtracting Decimals PRACTICE

Name_____
Date _____

Directions: Find each sum or difference. Show your work.

1. $5.114 + 3.25$	7. $0.75 - 0.003$
2. $8.74 + 5.459$	8. $6.68 - 3.72$
	9. $45.73 - 3.432$
	10. $0.23 - 0.106$

Adding and Subtracting Decimals PRACTICE

Name_____
Date _____

Directions: Find each sum or difference. Show your work.

1. $5.114 + 3.25$	7. $0.75 - 0.003$
2. $8.74 + 5.459$	8. $6.68 - 3.72$
3. $9.05 + 3.245$	9. $45.73 - 3.432$
4. $10.443 + 5.38$	10. $0.23 - 0.106$

Multiplying Decimals PRACTICE

Name_____
Date _____

Directions: Find each product. Show your work.

1. $53.1 \cdot 0.06$	2. $2.76 \cdot 4.01$
3. $17.2 \cdot 0.8$	4. $4.76 \cdot 2.3$
	6. $0.513 \cdot 9.2$
	8. $2.72 \cdot 0.21$
	10. $34.34 \cdot 8.9$
	12. $102.9 \cdot 34.2$

Decimal Applications PRACTICE

Name_____
Date _____

Directions: Read each problem carefully and solve. Show your work.

1) A group is hiking through the mountains. They hike 60.2 miles the first day, 48.06 miles the second day and 68.12 miles the third day. How far did they hike in all?

Work:

Operation: _____ Expression: _____ Answer: _____

2) Martin is keeping track of his spending. He started the month with $168.40 in his account. On the first day he deposited a check for $450.88, spent $64.03 on groceries and wrote a check to his cable company for $115.90. How much does he have left in his account at the end of the first day?

Work:

Ope_____ Answer: _____

3) ___ How many cups will be used for 8.5 cookie

4) Bonnie wo___ and earns $11.20 per hour. How much did she earn altogether last we___

PRE-ASSESSMENT

Operations with Whole Numbers & D

Solve each problem. Show your work on a separate sheet of pa

1) What is the value of the underlined digit? 17.768	9) Find the sum: 54.7+ 4.035
2) What is the value of the underlined digit? 4,578.42	10) Find the difference: 785.1 –
3) Estimate to the nearest whole number : 18.938 + 23.57	11) Find the product: 6.56 • 8.1

Whole Number Operations, Place Value and Estimation QUIZ

Directions : Solve each problem. Show your work.

1. Find the sum. 14,524 + 295	2. Find the difference. 1,235 – 399
3. Find the product. 13 • 125	4. Find the quotient. 7,608 ÷ 12
value of the underlined digit? 5,401,123	6. What is the value of the underlined digit? 6,325.099

Adding, Subtracting and Multiplying Decimals QUIZ

Directions : Solve each problem. Show your work.

1. Find the sum. 49.7 + 108.45	2. Find the difference. 27.748 – 9.8
3. Find the product. 9.5 • 0.5	4. Find the difference. 33.7 – 4.64
5. Find the sum. 14.524 + 2.95	6. Find the difference. 582.76 – 18.9

Operations with Whole Numbers and Decimals UNIT EXAM

Directions : Show your work whenever possible.

1) What is the value of the underlined digit? 62,893	6) Estimate the difference to the nearest whole number : 13.4 – 6.791
2) What is the value of the underlined digit? 400,834	7) Estimate the product to the nearest whole number : 5.89 • 4.8

UNIT EXAM

11) Ben used a $100 bill to pay for a $65.82 purchase. How much change should he get back?	16) How much would 3.4 pounds of apples cost if they are sold for $1.29 per pound?
10) Millie is buying 8 movie tickets for $7.50 each. She has a $50 bill. Can she buy all 8 tickets? Explain.	17) Justin works 9.25 hours at his job $8.90 per hour. About how muc earn? Explain how you found yo
13) You ran 4.65 miles yesterday, 9.05 miles today and plan tomorrow. How far wi after your r	18) Dave bought a dozen donuts f Each donut costs $0.48. How mu spend?
	?) Jackie multiplied 8 and 1.245. S nswer 99.6. Is she correct? Explain

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Operations with Whole Numbers and Decimals STUDY GUIDE

WHOLE NUMBER PLACE VALUE :

5,854,902 =

MILLIONS	HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES
5	8	5	4	9	0	2

DECIMAL PLACE VALUE :

TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES	DECIMAL POINT	TENTHS	HUNDREDTHS	THOUSANDTHS	TEN THOUSANDTHS
5	8	5	4	9	.	2	4	8	2

ADDING & SUBTRACTING DECIMALS :
• Line up the decimals vertically.

ESTIMATING :
• Round each decimal to the

• Multiply without worrying about the decimal – yet.
• Count the total number of

• Write the problem with the dividend inside a division bracket.
• Re-write the divisor as a whole number and move

Assessments

6th Grade Math Curriculum

Operations with Whole Numbers and Decimals

Unit ONE

Unit ONE
Operations with Whole Numbers and Decimals

Unit ONE
Operations with Whole Numbers and Decimals

Unit ONE
Operations with Whole Numbers and Decimals

Unit ONE
Operations with Whole Numbers and Decimals

Unit ONE
Pre and Post Assessments

6th Grade Math Curriculum
STUDENT TRACKING

Name	Pre Assessment	Post Assessment	Notes

Unit ONE Lesson FOUR
Multiplying Decimals

6th Grade Math Curriculum
STUDENT TRACKING

Name	Warm Up 1	Warm Up 2	Notes	Practice	Lessons 3 & 4 QUIZ

Unit ONE Lesson TWO
Place Value and Estimating with Decimals

6th Grade Math Curriculum
STUDENT TRACKING

Name	Lessons 1 & 2 QUIZ	Exit Ticket 1	Exit Ticket 2	Notes :

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Tracking Sheets & Binder Labels

Operations with Whole Numbers and D...

Vocabulary	Objective...
➤ Difference	• Add, subtract, mult... divide multi-digit nu...
➤ Dividend	
➤ Divisor	• Add, subtract, mult... divide multi-digit de...
➤ Estimating	
➤ Factor	• 5.NBT.5
➤ Product	• 5.NBT.6
➤ Quotient	• 5.NBT.7
	• 6.NS.2
	• 6.NS.3

Name_____

Week of _____ to _____

WEEKLY WARM UP SHEET

Date:

Date:

Exit Ticket	Exit Ticket	Exit Ticket	Exit Ticket	Exit Ticket
Name_____	Name_____	Name_____	Name_____	Name_____
Date _____	Date _____	Date _____	Date _____	Date _____

Operations with Whole Numbers and Decimals

Standard(s): _____ Date(s): _____

Student Materials:

☐ Calculator ☐ Scissors ☐ Compass ☐ _____
☐ Colored pencils ☐ Glue ☐ Graph paper ☐ _____
☐ Protractor ☐ Dry erase ☐ _____

...ession:

Operations with Whole Numbers and Decimals

difference	
dividend	
divisor	
estimating	
fac...	

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BEYOND THE WORKSHEET

Planning Pages