



5th Grade

Big idea: Fractions and decimals connect to real-world math.

- Add, subtract, multiply, and divide fractions
- Understand decimals to the thousandths
- Volume (how much space something takes)
- Coordinate planes (graphing points)
- Analyze data

Focus: fractions, decimals, ratios, early algebra

Questions:

- “How are these numbers related?”
- “Can you explain your thinking step by step?”
- “What happens if we change this number?”
- “Where would we see this in real life?”

Sentence stems:

- “First I..., then I...”
- “The relationship is...”
- “If ___ changes, then ___ will...”
- “This reminds me of...”

Priority Standard and Objectives

5.N.1 Read, write, represent, and compare fractions and decimals; recognize and write equivalent fractions; convert between fractions and decimals; use fractions and decimals in real-world and mathematical situations.	5.N.1.1 - Represent decimal fractions using a variety of models (e.g., 10 by 10 grids, base-ten blocks, meter stick) and show the rational number relationships among fractions, decimals and whole numbers.
	5.N.1.2 - Read, write, and represent decimals using place value to describe decimal numbers including fractional numbers as small as thousandths and whole numbers up to seven digits.
	5.N.1.3 - Compare and order decimals and fractions, including mixed numbers and fractions less than one, and locate on a number line.
	5.N.1.4 - Recognize and generate equivalent terminating decimals, fractions, mixed numbers, and fractions in various models.



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1: Build Decimal Numbers

Standard: 5.N.1.1 – Read, write, compare, and represent decimals through thousandths

Materials:

Coins, receipts, price tags, cards, or paper

Time:

10–15 minutes

Activity:

Use coins, receipts, price tags, or playing cards to find or create decimal numbers. For example, combine coins to make a decimal amount, use prices from receipts or store ads, or arrange cards to create a decimal. Then write each decimal in standard form, word form, and expanded form on paper.

Example:

Decimal: **4.582**

- Standard Form: 4.582
- Word Form: Four and five hundred eighty-two thousandths
- Expanded Form: $4 + 0.5 + 0.08 + 0.002$

Show your work here!

A large rectangular area with a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Connect decimals to money when possible
- What digit is in the hundredths place?
- How would you write this decimal in words?





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- Which digit has the greatest value?

2: Compare Decimals

Standard: 5.N.1.1 – Compare and order decimals through thousandths

Materials:

Playing cards, whiteboard, or paper

Time:

10 minutes

Activity:

Use digit cards or playing cards to create decimal numbers. Each player draws cards and arranges them to make the greatest decimal possible. Compare the decimals using $>$, $<$, or $=$. The player with the greater decimal wins the round!

Example:

Player 1: 3.482

Player 2: 3.507

$$3.482 < 3.507$$

Show your work here!

Tips & Prompts to Extend Thinking:

- Line up decimal points when comparing.
- Which decimal is greater?
- What place value helped you decide?
- Can you order these from least to greatest?





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Use these resources for activities that need a menu or sports stats



A LA CARTE ENTREES

DOUBLE CHEESEBURGER	\$ 6.79
CHEESEBURGER	\$ 5.59
BACON DOUBLE CHEESEBURGER	\$ 7.49
CRISPY CHICKEN TENDERS	\$ 4.89
FOOTLONG QUARTER POUND CONEY	\$ 5.29
JUMBO POPCORN CHICKEN	\$ 5.29
QUARTER POUND DOUBLE CHEESEBURGER	\$ 3.99
CLASSIC CRISPY CHICKEN SANDWICH	\$ 6.19
PREMIUM BEEF HOT DOGS: CHILI CHEESE CONEY	\$ 2.99
BACON CHEESEBURGER TOASTER	\$ 6.79
PREMIUM BEEF HOT DOGS: ALL-AMERICAN DOG	\$ 2.99
GRILLED CHEESE	\$ 2.59

BREAKFAST ENTREES (SERVED ALL DAY)

CINNABON CINNASNACKS (3PCS)	\$ 4.79
CINNABON CINNASNACKS (5PCS)	\$ 6.39
ULTIMATE MEAT & CHEESE BREAKFAST BURRITO	\$ 4.99
FRENCH TOAST STICKS	\$ 3.19
BREAKFAST BURRITO	\$ 3.99
SUPERSONIC BREAKFAST BURRITO	\$ 4.99
BREAKFAST TOASTER	\$ 4.39

STARLITE DRIVE-IN MENU PRICES

SNACKS & SIDES

MOZZARELLA STICKS	\$ 5.19	\$ 6.49
TOTS	\$ 3.19	\$ 3.79
TOTS WITH CHILI & CHEESE	\$ 4.79	\$ 5.39
FRIES	\$ 3.19	\$ 3.79
CHED R PEPPERS	\$ 5.29	\$ 6.39
JUMBO POPCORN CHICKEN	\$ 5.29	\$ 6.39
ONION RINGS	\$ 3.69	\$ 4.29
SOFT PRETZEL TWIST	\$ 2.49	
FRIES WITH CHILI & CHEESE	\$ 4.79	\$ 4.29
CORN DOG	\$ 1.99	

REAL ICE CREAM SHAKES & BLASTS

CLASSIC BLAST (MEDIUM)	\$ 6.19
CLASSIC BLAST (LARGE)	\$ 7.29
HAND MIXED CLASSIC SHAKE (MEDIUM)	\$ 5.49
HAND MIXED CLASSIC SHAKE (LARGE)	\$ 6.59
HAND MIXED MASTER SHAKE (MEDIUM)	\$ 5.89
HAND MIXED MASTER SHAKE (LARGE)	\$ 6.99

NAME	GP	GS	MIN	PTS	OR	DR	REB	AST	STL	BLK	TO	PF	AST/TO
Shai Gilgeous-Alexander G	8	8	34.9	29.1	0.6	2.4	3.0	7.1	0.8	0.9	3.0	2.0	2.4
Jalen Williams G	2	2	26.0	20.5	1.0	3.0	4.0	5.0	1.0	0.5	1.0	1.0	5.0
Ajay Mitchell G	8	6	29.8	18.8	1.6	2.4	4.0	4.9	1.4	0.0	1.1	1.8	4.3
Chet Holmgren C	8	8	31.4	18.6	1.8	7.4	9.1	1.3	1.4	1.8	1.3	2.0	1.0
Isaiah Hartenstein C	8	8	25.5	9.9	3.6	5.1	8.8	2.5	1.3	0.9	1.8	3.1	1.4
Alex Caruso G	8	0	21.1	7.6	0.4	3.1	3.5	1.6	1.5	0.1	0.8	2.0	2.2
Cason Wallace G	8	0	23.1	7.3	1.1	1.9	3.0	2.1	1.8	0.5	0.8	2.3	2.8
Jared McCain G *	8	0	10.0	7.3	0.4	0.6	1.0	0.5	0.0	0.0	0.1	1.0	4.0
Isaiah Joe G	7	0	12.6	6.6	0.3	1.0	1.3	1.1	0.6	0.0	0.4	1.6	2.7
Luguentz Dort G	8	8	25.0	6.5	0.4	2.0	2.4	1.4	0.5	0.1	0.5	2.8	2.8
Jaylin Williams F	8	0	13.4	3.6	0.3	2.9	3.1	1.4	0.8	0.4	0.5	1.9	2.8
Aaron Wiggins G	7	0	5.9	1.4	0.1	0.3	0.4	0.7	0.1	0.0	0.1	0.3	5.0
Nikola Topic G	5	0	2.0	0.4	0.0	0.4	0.4	0.2	0.2	0.0	0.2	0.0	1.0
Kenrich Williams G	6	0	2.7	0.3	0.3	0.3	0.7	0.2	0.0	0.0	0.0	0.2	INF
Total	8			121.3	11.0	30.1	41.1	25.9	10.3	4.8	10.6	20.8	2.4



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3: Round Decimals

Standard: 5.N.1.2 – Round decimals to any place value

Materials:

Receipts, menus, sports stats, or internet

Time:

10–15 minutes

Activity:

Find decimal numbers on receipts, menus, price tags, or sports statistics. Round each decimal to the nearest whole number, tenth, or hundredth and explain how you decided whether to round up or down.

Example:

Price: \$8.47

- Nearest whole: 8
- Nearest tenth: 8.5

Show your work here!

A large rectangular area with a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Remember to look at the digit on the right.
- Use number lines for support if needed.
- What place are you rounding to?
- Would this round up or down?





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- How do you know?

4: Decimal Estimation

Standard: 5.N.1.2 – Use rounding to estimate decimal sums and differences

Materials:

Store ads, apps, receipts, or menus

Time:

10–15 minutes

Activity:

Use grocery ads, menus, or shopping apps to estimate the total cost of items before finding the exact answer. Round the prices first to help make a quick estimate.

Example:

Milk: \$4.29 → \$4

Bread: \$3.78 → \$4

Fruit: \$5.61 → \$6

Estimated total: \$14



Show your work here!

Tips & Prompts to Extend Thinking:

- Make sure to estimate before solving exactly.
- Why are estimates useful in real life?
- What did you round to?
- Was your estimate reasonable?
- How close was your exact answer?



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5: Add Decimals

Standard: 5.N.1.3 – Add decimals through thousandths

Materials:

Menus, receipts, store ads, or calculator for checking

Time:

15 minutes

Activity:

Use receipts, menus, prices, or measurements to practice adding decimal numbers. Find the total amount and show your work by lining up the decimal points correctly.

Example:

$$\$6.75 + \$4.29 + \$2.50 = \$13.54$$

Show your work here!



Tips & Prompts to Extend Thinking:

- Line up decimal points carefully.
- Estimate first.
- Why is lining up decimals important?
- How can you check your answer?
- What strategy helped you?



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6: Subtract Decimals

Standard: 5.N.1.3 – Subtract decimals through thousandths

Materials:

Store ads, receipts, or menus

Time:

15 minutes

Activity:

Use prices, receipts, or money amounts to practice subtracting decimals. Find how much money is left after a purchase and show your work by lining up the decimal points correctly..

Example:

You have \$20.00 and spend \$13.47.

$$20.00 - 13.47 = \$6.53$$

Show your work here!



Tips & Prompts to Extend Thinking:

- Make sure to be neat when lining up place values!
- Use estimation to check reasonableness.
- Did your answer make sense?
- How did you regroup?
- What estimate could you use?



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7: Restaurant Math Challenge

Standard: 5.N.1.3 – Solve real-world decimal problems

Materials:

Menus, restaurant apps, receipts, or paper

Time:

15–20 minutes

Activity:

Pretend you are ordering food for yourself or your family at a restaurant. Choose at least 3 menu items and find the total cost. Then calculate how much money would be left if you paid with a larger amount, such as \$50 or \$100. Show your work using equations, drawings, or models.

Example:

Burger: \$8.75

Fries: \$3.49

Drink: \$2.25

Total: $8.75 + 3.49 + 2.25 = \$14.49$

If you pay with \$20:

$20.00 - 14.49 = \$5.51$ left



Show your work here!

Tips & Prompts to Extend Thinking:

- Draw models or highlight key information.
- What operation will you use?
- What is the problem asking?
- How do you know?



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8: Sports Team Challenge

Standard: 5.N.1.4 – Multiply multi-digit whole numbers fluently

Materials:

Sports stats, paper, whiteboard, or internet

Time:

15–20 minutes

Activity:

Choose a favorite sports team or athlete. Use multiplication to find totals such as points scored, yards gained, or fans attending games. Show your work using equations, drawings, or models.

Example:

A basketball player scored 28 points in each of 16 games.

$$28 \times 16 = \mathbf{448 \text{ points}}$$



Show your work here!

Tips & Prompts to Extend Thinking:

- Estimate before solving!
- What are some multiplication strategies you could use to solve this problem?
- Explain what the product represents.



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9: Real-Life Multiplication

Standard: 5.N.1.4 – Solve real-world multiplication problems

Materials:

Drive-In Movies ticket price menu, paper, pencil, or calculator for checking

Time:

15–20 minutes

Activity:

Use the Drive-In Movie ticket menu to solve real-world multiplication problems. Choose different groups of people attending the movie and calculate the total ticket cost. You can also include snacks and drinks to create a larger total. Show your work using equations, drawings, or models.



STARLITE

Drive-In Movies

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Example:

2 adults attend on the weekend.
Weekend adult tickets cost \$11.25 each.

$$2 \times 11.25 = \$22.50$$

Then add popcorn:
 $\$22.50 + \$4.25 = \$26.75$

Show your work here!

Tips & Prompts to Extend Thinking:

- How much would it cost for a family of 4?
- What happens if you add snacks and drinks?
- How could you estimate the total first?



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10: Math Challenge Day

Standards: 5.N.1.1–5.N.1.4

Materials:

Menus, ads, internet, whiteboard, or paper

Time:

20 minutes

Activity:

Create and solve your own real-world math challenge using decimals, rounding, addition, subtraction, or multiplication. Show your work using equations, drawings, models, or written explanations.

Example:

A family buys 4 passes to the Tulsa Zoo for \$12.75 each and snacks costing \$18.50.

$$4 \times 12.75 = 51.00$$

$$51.00 + 18.50 = \$69.50$$



Show your work here!

Tips & Prompts to Extend Thinking:

- What skills did you use?
- How did you know your answer was correct?
- Can someone else solve your problem?



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11: Decimal Place Value Puzzle

Standard: 5.N.1.1 – Represent decimals through thousandths

Materials:

Sticky notes, cards, whiteboard, or paper

Time:

10–15 minutes

Activity:

Use decimal numbers to practice identifying place value. Read each decimal and determine the value of specific digits in the ones, tenths, hundredths, or thousandths places.

Example:

Decimal: **7.482**

- 7 is in the ones place
- 4 is worth 0.4
- 8 is worth 0.08
- 2 is worth 0.002

Show your work here!

A large rectangular area with a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Use place value vocabulary.
- Connect decimals to money or measurement
- Which digit is in the thousandths place?
- How would you say this decimal aloud?





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12: Decimal Ordering Challenge

Standard: 5.N.1.1 – Compare and order decimals

Materials:

Decimal cards, receipts, sticky notes, or paper

Time:

10 minutes

Activity:

Put decimal numbers in order from least to greatest or greatest to least. Use place value to help compare the decimals and explain how you decided the order.

Example:

Decimals: 0.78, 0.705, 0.83, 0.799

Least to Greatest: 0.705, 0.78, 0.799, 0.83



Show your work here!

Tips & Prompts to Extend Thinking:

- Make sure to line up your decimal points!
- Compare digits one place at a time.
- How did you decide the order?
- What place value helped most?



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13: Rounding Relay

Standard: 5.N.1.2 – Round decimals to any place value

Materials:

Decimal cards, whiteboard, or sticky notes

Time:

10–15 minutes

Activity:

Practice rounding decimal numbers to the nearest whole number, tenth, or hundredth. Work through different decimal cards or problems and explain how you decided whether to round up or down.

Example:

Decimal: **5.786**

- Nearest whole: 6
- Nearest tenth: 5.8
- Nearest hundredth: 5.79



Show your work here!

Tips & Prompts to Extend Thinking:

- Underline the rounding place.
- What digit helped you round?
- Why did the number round up?
- How do you know?



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14: Estimate the Total

Standard: 5.N.1.2 – Estimate decimal sums and differences

Materials:

Store ads, menus, shopping apps, or receipts

Time:

15 minutes

Activity:

Estimate grocery, restaurant, or online shopping totals before calculating exactly.

Example:

Pizza: \$12.49 → \$12

Drinks: \$6.75 → \$7

Dessert: \$4.60 → \$5

Estimated total: **\$24**



Show your work here!

Tips & Prompts to Extend Thinking:

- Use mental math strategies.
- About how much would this cost?
- What did you round to?
- Was your estimate reasonable?



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15: Decimal Addition Race

Standard: 5.N.1.3 – Add decimals through thousandths

Materials:

Menus, receipts, timers, or whiteboard

Time:

15–20 minutes

Activity:

Use menus, receipts, prices, or measurements to add decimal numbers. Find the total amount and show your work by lining up the decimal points correctly.

Example:

$$\$8.45 + \$6.78 + \$3.25 = \$18.48$$

Show your work here!



Tips & Prompts to Extend Thinking:

- Focus on accuracy before speed.
- Estimate first.
- Why must decimals line up?
- How can you check your answer?
- What strategy worked best?



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16: Decimal Subtraction Detective

Standard: 5.N.1.3 – Subtract decimals through thousandths

Materials:

Store ads, receipts, or paper

Time:

15–20 minutes

Activity:

Solve decimal subtraction problems and check your work by using addition. Find mistakes, explain your thinking, and make sure your answer is reasonable.

Example:

You have \$50.00 and spend \$32.48.

$$50.00 - 32.48 = \$17.52$$

Check:

$$17.52 + 32.48 = 50.00$$



Show your work here!

Tips & Prompts to Extend Thinking:

- Make sure to regroup carefully.
- How did you regroup?
- How can addition help check?
- Does your answer make sense?



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17: Money Math Mission

Standard: 5.N.1.3 – Solve real-world decimal problems

Materials:

Store ads, shopping websites, or receipts

Time:

20 minutes

Activity:

Pretend to shop online or in a grocery store and calculate totals and change.

Example:

Items:

- Shoes: \$34.99
- Shirt: \$18.50
- Hat: \$12.25

Total: $34.99 + 18.50 + 12.25 = \$65.74$

If you pay with \$100: $100 - 65.74 = \$34.26$



Show your work here!

Tips & Prompts to Extend Thinking:

- How much would you spend altogether?
- How much change would you get?
- What operation did you use?



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18: Multiplication Strategy Practice

Standard: 5.N.1.4 – Multiply multi-digit whole numbers fluently

Materials:

Graph paper, LEGOs, whiteboard, or paper

Time:

15–20 minutes

Activity:

Use area models, arrays, or graph paper to solve multiplication problems.

Example:

$$34 \times 27$$

Break apart:

$$30 \times 20 = 600$$

$$30 \times 7 = 210$$

$$4 \times 20 = 80$$

$$4 \times 7 = 28$$

Total:

$$600 + 210 + 80 + 28 = \mathbf{918}$$



Show your work here!

Tips & Prompts to Extend Thinking:

- Allow multiple methods for solving
- Which strategy did you use?
- Why did that strategy work?
- Could you solve it another way?



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19: Multiplication Real-Life Challenge

Standard: 5.N.1.4 – Solve real-world multiplication problems

Materials:

Party ads, menus, store websites, or paper

Time:

20 minutes

Activity:

Plan a party or event by calculating snacks, drinks, decorations, or tickets needed.

Example:

A class party needs 8 tables with 6 drinks at each table.

$8 \times 6 = 48$ drinks



Show your work here!

Tips & Prompts to Extend Thinking:

- How many groups are there?
- What does the product represent?
- Would your estimate be enough?



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20: Mixed Math Review

Standards: 5.N.1.1–5.N.1.4

Materials:

Sticky notes, cards, receipts, whiteboard, or paper

Time:

20–25 minutes

Activity:

Create 4–5 different math stations using decimal, rounding, addition, subtraction, and multiplication skills. At each station, complete a different math challenge using real-world items like menus, receipts, price tags, sports stats, or maps. Move through the stations one at a time and show your work using equations, drawings, models, or written explanations.

Example:

Station 1: Round decimal prices

Station 2: Compare decimals

Station 3: Solve decimal addition problems

Station 4: Solve multiplication challenges



Show your work here!

A large rectangular area with a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Which skill feels easiest now?
- What strategy helps you most?
- What would you like more practice with?



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21: Decimal Number Line Hop

Standard: 5.N.1.1 – Represent decimals on a number line

Materials:

Tape, sidewalk chalk, ruler, or string

Time:

10–15 minutes

Activity:

Create a large number line with tape or chalk and place decimals in the correct locations.

Example:

Place:

0.25, 0.5, 0.75, and 1.0 on the number line.



Show your work here!

Tips & Prompts to Extend Thinking:

- Think about benchmark numbers.
- Which decimal is closest to 1?
- How do you know where to place it?
- Which decimals are between 0 and 0.5?



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22: Decimal Match-Up

Standard: 5.N.1.1 – Read and write decimals through thousandths

Materials:

Index cards, sticky notes, or digital flashcards

Time:

10–15 minutes

Activity:

Play a matching game with decimals, word forms, and expanded forms.

Example:

Decimal: 3.407

Word Form: Three and four hundred seven thousandths

Expanded Form: $3 + 0.4 + 0.007$



Show your work here!

Tips & Prompts to Extend Thinking:

- Practice using place value vocabulary
- What does this decimal represent?
- How would you write it in words?
- What place value is the 5 in?



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23: Estimate the Distance

Standard: 5.N.1.2 – Use estimation strategies with decimals

Materials:

Maps, GPS apps, or internet

Time:

15 minutes

Activity:

Use maps or GPS apps to estimate travel distances between places.

Example:

Tulsa to Oklahoma City:

106.4 miles $\approx$ **106 miles**



Show your work here!

Tips & Prompts to Extend Thinking:

- What did you round to?
- Why is estimation helpful?
- Was your estimate reasonable?



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24: Decimal Round-Up Challenge

Standard: 5.N.1.2 – Round decimals to any place value

Materials:

Decimal cards, sticky notes, or whiteboard

Time:

10–15 minutes

Activity:

Create decimal cards using index cards, sticky notes, or small pieces of paper. Write a different decimal number on each card. Then choose a place value to round each decimal to, such as the nearest whole number, tenth, or hundredth. Show your rounded answers and explain how you decided whether to round up or down.

Example:

Decimal: 9.684

- Nearest whole: 10
- Nearest tenth: 9.7
- Nearest hundredth: 9.68



Show your work here!

Tips & Prompts to Extend Thinking:

- Underline the target place value.
- What digit helped you round?
- Would this round up or down?
- Why?



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25: Decimal Menu Math

Standard: 5.N.1.3 – Add and subtract decimals

Materials:

Menus, restaurant apps, or receipts

Time:

20 minutes

Activity:

Use a restaurant menu or takeout app to choose meals. Add the prices to find the total cost and figure out how much change you would get back after paying.

Example:

Meal 1: \$12.75

Meal 2: \$9.50

Meal 3: \$7.25

Total: $12.75 + 9.50 + 7.25 = \$29.50$

Pay with \$40:

$40.00 - 29.50 = \$10.50$

Show your work here!

Tips & Prompts to Extend Thinking:

- Estimate before solving.
- How much would 3 meals cost?
- How much change would you receive?
- What operation did you use?





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26: Decimal Error Analysis

Standard: 5.N.1.3 – Add and subtract decimals accurately

Materials:

Whiteboard, sticky notes, receipts, or paper

Time:

15 minutes

Activity:

Pretend you are a math detective! Look at solved decimal problems from receipts, worksheets, or examples made at home. Find the mistakes, explain what is wrong, and solve the problem correctly.

Example:

Problem:

$$4.75 + 2.8 = 5.03 \quad \text{✗}$$

Correct Answer:

$$4.75 + 2.80 = 7.55$$

Mistake:

The decimal points were not lined up correctly.

Show your work here!

Tips & Prompts to Extend Thinking:

- Explain why an answer is incorrect.
- Focus on place value alignment.
- What mistake was made?
- How can you fix it?
- Why is lining up decimals important?





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27: Multiplication Estimation Challenge

Standard: 5.N.1.4 – Multiply multi-digit whole numbers

Materials:

Menus, sports stats, receipts, or paper

Time:

15 minutes

Activity:

Use restaurant prices, sports scores, or shopping items to estimate multiplication problems before finding the exact answer. Round the numbers first to help make a quick estimate.

Example:

$$48 \times 19$$

Estimate:

$$50 \times 20 = 1,000$$

Exact answer:

$$48 \times 19 = 912$$



Show your work here!

Tips & Prompts to Extend Thinking:

- Make sure to round before multiplying.
- About how much should the product be?
- Was your estimate close?
- How do you know your answer is reasonable?



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28: Multiplication Puzzle Grid

Standard: 5.N.1.4 – Fluently multiply whole numbers

Materials:

Puzzle sheets, graph paper, whiteboard, or crayons

Time:

15–20 minutes

Activity:

Solve multiplication problems to complete a puzzle, mystery path, or color-by-number picture.

Example:

$$23 \times 14 = 322$$

$$42 \times 8 = 336$$

Correct answers unlock the next puzzle section.



Show your work here!

A large rectangular area outlined by a dotted blue line, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Which strategy helped you solve it?
- How can you check your work?
- What patterns do you notice?



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29: Summer Trip Budget

Standards: 5.N.1.2–5.N.1.4

Materials:

Travel websites, maps, menus, or brochures

Time:

20–30 minutes

Activity:

Plan a pretend summer vacation using maps, hotel prices, restaurant menus, and at



Example:

Hotel:

$$3 \text{ nights} \times \$129.99 = \$389.97$$

Tickets:

$$4 \text{ tickets} \times \$24.50 = \$98.00$$

Estimated total:

About **\$490**

Show your work here!

Tips & Prompts to Extend Thinking:

- How much would the trip cost altogether?
- What did you estimate first?
- Would you stay within budget?



Tulsa Math Adventure

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30: Create a Decimal Board Game

Standards: 5.N.1.1–5.N.1.4

Materials:

Paper, markers, dice, crayons, or index cards

Time:

20–30 minutes

Activity:

Design a board game using decimal, rounding, and multiplication challenges.

Example:

Landing on a space might say:

“Round 8.476 to the nearest tenth.”

Correct answer:

8.5



Show your work here!

A large rectangular area defined by a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- What math skills are included?
- How do players move forward?
- Can others understand your game?



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31: Decimal Place Value Challenge

Standard: 5.N.1.1 – Represent decimals through thousandths

Materials:

Digit cards, playing cards, sticky notes, or whiteboard

Time:

10–15 minutes

Activity:

Use digit cards to create the largest and smallest decimals possible.

Example:

Digits:

3, 5, 7, 9

Largest decimal:

97.53

Smallest decimal:

35.79



Show your work here!

Tips & Prompts to Extend Thinking:

- Why did you place the digits there?
- How could you make the decimal larger?
- What digit has the greatest value?



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32: Decimal Detective

Standard: 5.N.1.1 – Compare and order decimals

Materials:

Sticky notes, clue cards, or whiteboard

Time:

10–15 minutes

Activity:

Solve mystery decimal clues hidden around the house or classroom.

Example:

Clues:

- My decimal is greater than 4.5
- My decimal is less than 4.8
- The digit in the hundredths place is 7

Possible answer:

4.72



Show your work here!

Tips & Prompts to Extend Thinking:

- What clue helped the most?
- What place value narrowed it down?
- Can you create your own mystery decimal?



Tulsa Math Adventure

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33: Rounding in the Real World

Standard: 5.N.1.2 – Round decimals to any place value

Materials:

Receipts, ads, menus, internet, or newspapers

Time:

15 minutes

Activity:

Find decimal numbers on receipts, menus, gas prices, or sports statistics and round

Example:

Gas price:

\$3.789

- Nearest whole: \$4
- Nearest tenth: \$3.8
- Nearest hundredth: \$3.79



Show your work here!

Area for showing work.

Tips & Prompts to Extend Thinking:

- Estimate mentally first.
- Why might someone round this number?
- What place value are you rounding to?
- Would rounding change the answer much?



Tulsa Math Adventure

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34: Decimal Estimate Showdown

Standard: 5.N.1.2 – Estimate decimal sums and differences

Materials:

Menus, receipts, timers, or whiteboard

Time:

15 minutes

Activity:

Compete in a family “estimate challenge” using shopping totals, sports times, or distances.

Example:

$$6.82 + 3.17$$

Estimate:

$$7 + 3 = 10$$

Exact answer:

$$9.99$$



Show your work here!

Tips & Prompts to Extend Thinking:

- About how much should the answer be?
- Was your estimate close?
- How did estimation help?



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35: Decimal Addition Scavenger Hunt

Standard: 5.N.1.3 – Add decimals through thousandths

Materials:

Receipts, labels, menus, or shopping apps

Time:

15–20 minutes

Activity:

Find decimal numbers around the house on labels, receipts, food packages, or apps and add them together.

Example:

Milk: \$4.29

Juice: \$3.45

Bread: \$2.78

Total:

$$4.29 + 3.45 + 2.78 = \$10.52$$



Show your work here!

Tips & Prompts to Extend Thinking:

- Make sure to line up decimal points carefully!
- What was your total?
- How did you organize your work?
- Could you estimate first?



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36: Subtraction Story Creator

Standard: 5.N.1.3 – Subtract decimals through thousandths

Materials:

Whiteboard, notebook, or recording device

Time:

15–20 minutes

Activity:

Create your own decimal subtraction story using money, sports, travel, or cooking.

Example:

You had \$45.50 and spent \$18.75 at the store.

$$45.50 - 18.75 = \$26.75$$



Show your work here!

Tips & Prompts to Extend Thinking:

- What does your answer represent?
- How did you know to subtract?
- Can someone else solve your problem?



Tulsa Math Adventure

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37: Multiplication Maze

Standard: 5.N.1.4 – Multiply multi-digit whole numbers fluently

Materials:

Maze sheets, sticky notes, or whiteboard

Time:

15–20 minutes

Activity:

Solve multiplication problems to move through a maze, obstacle course, or clue path.

Example:

$$36 \times 14 = \mathbf{504}$$

Correct answers unlock the next challenge.



Show your work here!

Tips & Prompts to Extend Thinking:

- What strategy helped you solve this?
- How did estimation help?
- How can you check your answer?



Tulsa Math Adventure

Explore! Solve! Succeed!

38: Multiplication Sports Stats

Standard: 5.N.1.4 – Solve real-world multiplication problems

Materials:

Sports apps, newspapers, or scoreboards

Time:

15–20 minutes

Activity:

Use sports statistics to create multiplication challenges.

Example:

A basketball player scored 24 points in each of 6 games.

$$24 \times 6 = \mathbf{144 \text{ points}}$$



Show your work here!

Tips & Prompts to Extend Thinking:

- What does the product represent?
- How many groups are there?
- Could you estimate first?



Tulsa Math Adventure

Explore! Solve! Succeed!

39: Math Restaurant Challenge

Standards: 5.N.1.2–5.N.1.4

Materials:

Menus, takeout apps, or restaurant websites

Time:

20–25 minutes

Activity:

Plan meals for a family or group using menus and calculate totals with decimals and



Example:

5 meals costing \$12.50 each

$$5 \times 12.50 = \$62.50$$

Add drinks:

$$\$62.50 + \$15.75 = \$78.25$$

Show your work here!

Tips & Prompts to Extend Thinking:

- How much would it cost for everyone?
- What operation did you use?
- Would your estimate be enough?



Tulsa Math Adventure

Explore! Solve! Succeed!

40: Summer Math Review Party

Standards: 5.N.1.1–5.N.1.4

Materials:

Cards, receipts, whiteboard, sticky notes, or paper

Time:

20–30 minutes

Activity:

Create a “Summer Math Olympics” reviewing decimals, rounding, operations, and measurement and stations.

Example:

Station 1: Compare decimals

Station 2: Round prices

Station 3: Solve decimal addition problems

Station 4: Complete multiplication challenges



Show your work here!

A large rectangular area outlined with a blue dotted line, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Which skill improved the most?
- What strategy helps you most?
- What math goal do you still have?



Tulsa Math Adventure

Explore! Solve! Succeed!

41: Decimal War

Standard: 5.N.1.1 – Compare and order decimals through thousandths

Materials:

Digit cards, playing cards, sticky notes, or whiteboard

Time:

10–15 minutes

Activity:

Use digit cards to create decimals and compete to build the greatest number.

Example:

Player 1: 4.582

Player 2: 4.507

$4.582 > 4.507$



Show your work here!

Tips & Prompts to Extend Thinking:

- Which decimal is greater?
- What place value made the difference?
- How could you make your decimal larger?



Tulsa Math Adventure

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42: Decimal Art Challenge

Standard: 5.N.1.1 – Represent decimals in multiple forms

Materials:

Graph paper, crayons, markers, or digital drawing apps

Time:

20 minutes

Activity:

Create colorful decimal designs using graph paper, shading models, or digital drawing

Example:

Shade 0.65 of a 100-square grid.

Decimal: 0.65

Fraction: $\frac{65}{100}$

Percent: 65%



Show your work here!

A large rectangular area defined by a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- What decimal does this model represent?
- How much of the picture is shaded?
- Can you write it another way?



Tulsa Math Adventure

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43: Olympic Estimation Challenge

Standard: 5.N.1.2 – Use estimation strategies with decimals

Materials:

Sports stats, internet, stopwatch, or paper

Time:

15 minutes

Activity:

Estimate race times, distances, or sports scores using decimal numbers.

Example:

Race times:

$9.82 \text{ seconds} + 10.14 \text{ seconds}$

Estimate:

$10 + 10 = \mathbf{20 \text{ seconds}}$

Exact total:

19.96 seconds



Show your work here!

Tips & Prompts to Extend Thinking:

- What did you round to?
- Why is estimation useful?
- Was your estimate reasonable?



Tulsa Math Adventure

Explore! Solve! Succeed!

44: Decimal Price Tag Hunt

Standard: 5.N.1.2 – Round decimals to any place value

Materials:

Receipts, ads, shopping apps, or store websites

Time:

15 minutes

Activity:

Look for prices on receipts, store ads, menus, or shopping apps. Choose several prices with decimals and round each one to the nearest whole number, tenth, or hundredth.

Example:

Price of snacks for a party: \$14.78

- Nearest whole: \$15
- Nearest tenth: \$14.8
- Nearest hundredth: \$14.79



Show your work here!

A large rectangular area outlined with a blue dotted line, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- What place value did you round to?
- Would the price round up or down?
- Why?



Tulsa Math Adventure

Explore! Solve! Succeed!

45: Decimal Recipe Math

Standard: 5.N.1.3 – Add and subtract decimals through thousandths

Materials:

Recipes, measuring cups, or cooking websites

Time:

15–20 minutes

Activity:

Use a recipe to add or subtract ingredient amounts. Find the total amount of ingredients needed or figure out how much more of an ingredient is required.

Example:

Recipe calls for:

1.25 cups flour

0.75 cups sugar

Total:

$$1.25 + 0.75 = 2.00 \text{ cups}$$

Show your work here!

A large rectangular area with a dotted blue border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- How much ingredient is needed altogether?
- How much more do you need?
- What operation did you use?





Tulsa Math Adventure

Explore! Solve! Succeed!

46: Decimal Shopping Spree

Standard: 5.N.1.3 – Solve real-world decimal problems

Materials:

Store ads, shopping apps, or receipts

Time:

20 minutes

Activity:

Pretend you have a budget to spend while shopping online or using store ads.

Example:

Budget: \$100

Purchases:

Shoes: \$42.99

Backpack: \$24.50

Water bottle: \$11.75

Total:

$$42.99 + 24.50 + 11.75 = \$79.24$$

Money left:

$$100 - 79.24 = \$20.76$$



Show your work here!

Area for showing work.

Tips & Prompts to Extend Thinking:

- How much money is left?
- Did you stay within budget?
- What estimate could help?



Tulsa Math Adventure

Explore! Solve! Succeed!

47: Multiplication Strategy Sort

Standard: 5.N.1.4 – Multiply multi-digit whole numbers fluently

Materials:

Index cards, sticky notes, or whiteboard

Time:

15 minutes

Activity:

Look at different multiplication problems and decide which strategy would work best to solve each one. Sort the problems into groups such as mental math, area model, partial products, or break apart strategy. Explain why you chose each strategy.

Example:

$48 \times 5 \rightarrow$ Mental Math

$27 \times 34 \rightarrow$ Area Model

$125 \times 8 \rightarrow$ Break Apart Strategy



Show your work here!

A large rectangular area outlined by a blue dotted line, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- Why did you choose that strategy?
- Could another strategy work?
- Which method is most efficient?



Tulsa Math Adventure

Explore! Solve! Succeed!

48: Multiplication Array City

Standard: 5.N.1.4 – Represent multiplication with arrays and models

Materials:

Graph paper, LEGOs, crayons, or markers

Time:

20–25 minutes

Activity:

Design a pretend city using multiplication arrays. Create buildings, windows, parking spaces, or streets arranged in rows and columns. Write a multiplication equation to match each array you create.

Example:

Apartment building:

12 rows $\times$ 8 windows

$12 \times 8 = 96$ windows



Show your work here!

Tips & Prompts to Extend Thinking:

- How many rows and columns are there?
- What multiplication equation matches?
- How does the model help?



Tulsa Math Adventure

Explore! Solve! Succeed!

49: Summer Camp Planning

Standards: 5.N.1.3–5.N.1.4

Materials:

Store ads, camp supply lists, or internet

Time:

20–25 minutes

Activity:

Plan supplies and costs for a pretend summer camp. Use multiplication to figure out how many items are needed and how much they will cost altogether. You can include snacks, drinks, water bottles, camp shirts, or other supplies.

Example:

Campers:
24

Snack bags:
 $24 \times \$2.75 = \$66.00$

Water bottles:
 $24 \times \$1.25 = \$30.00$



Show your work here!

Tips & Prompts to Extend Thinking:

- How many supplies are needed altogether?
- How much would it cost?
- How did you estimate?



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50: Multiplication Escape Room

Standard: 5.N.1.4 – Solve multiplication problems fluently

Materials:

Sticky notes, clue cards, or whiteboard

Time:

20 minutes

Activity:

Solve multiplication problems to unlock clues and move through the escape room challenge. Each correct answer helps you find the next clue or complete the next part of the puzzle.

Example:

$$32 \times 14 = 448$$

Correct answers reveal the next clue location.



Show your work here!

Tips & Prompts to Extend Thinking:

- What clue did your answer unlock?
- How did you solve it efficiently?
- Could you estimate first?



Tulsa Math Adventure

Explore! Solve! Succeed!

51: Decimal Ordering Race

Standard: 5.N.1.1 – Compare and order decimals

Materials:

Decimal cards, sticky notes, or whiteboard

Time:

10–15 minutes

Activity:

Put decimal numbers in order from least to greatest or greatest to least as quickly and accurately as you can. Use place value to help compare the decimals.

Example:

Decimals: 0.92, 0.875, 1.04, 0.9

Least to Greatest: 0.875, 0.9, 0.92, 1.04



Show your work here!

Tips & Prompts to Extend Thinking:

- Which decimal is closest to 1?
- How did you decide?
- What place value helped most?



Tulsa Math Adventure

Explore! Solve! Succeed!

52: Estimate the Crowd

Standard: 5.N.1.2 – Estimate using rounding strategies

Materials:

Photos, sports stats, internet, or newspapers

Time:

15 minutes

Activity:

Look at pictures or information about concerts, games, fairs, or events. Estimate how many people are there by rounding numbers and using what you know about place value.

Example:

Estimated attendance:
4,892 people $\approx$ **4,900 people**



Show your work here!

Tips & Prompts to Extend Thinking:

- Why is your estimate reasonable?
- What did you round to?
- Could there be more or fewer?



Tulsa Math Adventure

Explore! Solve! Succeed!

53: Decimal Multi-Step Mission

Standard: 5.N.1.3 – Solve multi-step decimal problems

Materials:

Menus, receipts, store ads, or paper

Time:

20 minutes

Activity:

Solve real-world decimal problems that use more than one step. Use addition, subtraction, or multiplication to solve each part of the problem and show your work clearly.

Example:

Movie tickets: $3 \times \$12.50 = \$37.50$

Snacks: \$18.75

Total: $37.50 + 18.75 = \$56.25$

If you pay with \$80: $80 - 56.25 = \$23.75$



Show your work here!

Tips & Prompts to Extend Thinking:

- What did you solve first?
- Why?
- How do you know your answer is correct?



Tulsa Math Adventure

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54: Create a Math Commercial

Standards: 5.N.1.1–5.N.1.4

Materials:

Markers, poster paper, video recording device, or slideshow app

Time:

20–30 minutes

Activity:

Create a commercial to advertise a product, snack, event, or sale. Use decimals, prices, multiplication, or estimation in your commercial to show the cost or total price.

Example:

"Buy 4 sports drinks for \$2.25 each!"

$$4 \times 2.25 = \$9.00$$



Show your work here!

Tips & Prompts to Extend Thinking:

- What math did you include?
- How did multiplication help?
- What decimal prices did you use?



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55: Summer Math Champion Challenge

Standards: 5.N.1.1–5.N.1.4

Materials:

Cards, receipts, menus, sticky notes, or whiteboard

Time:

20–30 minutes

Activity:

Complete a final set of math challenges using decimals, rounding, addition, subtraction, and multiplication skills. Move through different stations or activities and show what you learned this summer.

Example:

Challenge stations:

- Compare decimals
- Round prices
- Solve decimal shopping problems
- Complete multiplication challenges
- Plan a mini budget



Show your work here!

A large rectangular area defined by a blue dotted border, intended for students to show their work.

Tips & Prompts to Extend Thinking:

- What skill improved the most?
- What strategy helps you most?
- What are you proud of learning this summer?



Tulsa Math Adventure

4th of July Challenge



America's 250th Birthday Decimal Challenge

Standard: 5.N.1.3 *Add and subtract decimals through thousandths to solve real-world problems.*

Materials

- Paper
- Pencil
- Optional calculator for checking work

Time

20–30 minutes

Activity: “Plan America’s 250th Birthday Bash!”

The United States is celebrating its **250th birthday**, and you are part of the event planning team! Your job is to help calculate the costs for the celebration using decimal operations.

Scenario

A community is hosting a giant Independence Day celebration. Use the prices below to solve the problems.

Item	Cost
Firework Pack	\$18.75
American Flags	\$6.50
Hot Dog Packs	\$12.99
Red, White & Blue Decorations	\$24.35
Sparklers	\$9.80

Challenges



Tulsa Math Adventure

4th of July Challenge



Challenge 1

The town buys:

- 2 Firework Packs
- 3 packs of Sparklers

How much do they spend altogether?

Challenge 2

The decorations committee has a budget of **\$100.00**.

If they buy:

- 1 Decoration Pack
- 4 American Flags
- 2 Hot Dog Packs

How much money is left?

Challenge 3

Estimate the total cost of all purchases by rounding each item price to the nearest dollar.

Challenge 4

Create your own 250th Anniversary shopping problem using at least 3 items from the list!

Bonus Challenge

Design your own "America 250" fireworks package and calculate the total cost for 5 customers!

Tips & Prompts to Extend Thinking:

- Encourage your child to estimate before solving exactly
- Ask them to explain how they lined up decimal points
- Connect decimals to real-world money skills
- "Why is lining up decimal points important?"
- "What estimate did you make first?"
- "How do you know your answer is reasonable?"
- "What operation did you use?"