



UNIT RATE · REAL-WORLD MATH

Better Buy Battle

Unit Rate Grocery Challenge

GRADE 7 · MATH

THIS PREVIEW INCLUDES 8 KEY PAGES

Resource Cover · Concept Review · Sample Task Cards (Tiers 1, 2, 3)
Battle Bracket · Exit Tickets · Answer Key Sample

FULL RESOURCE: 49 PAGES · 24 TASK CARDS

ALIGNED TO CCSS 7.RP.A.1

UNIT RATE • REAL-WORLD MATH

Better Buy Battle

Unit Rate Grocery Challenge

24 REAL-WORLD COMPARISON TASKS

STORE A

Applesauce

\$8.00

4 jars · 24 oz each

\$2.00 / jar

VS

STORE B

Applesauce

\$15.00

5 jars · 24 oz each

\$3.00 / jar

Tier 1 — Whole Number Rates

Tier 2 — Complex Fractions

Tier 3 — Multi-Step Scenarios

WHAT'S INSIDE

24 Task Cards

Full-color, 3 differentiated tiers, with self-checking answer tabs.

Battle Bracket

Pairs compete head-to-head; class champion is crowned.

Teacher Toolkit

Recording sheets, exit tickets, flyer, I-Can poster, full answer key.

Concept Review: Unit Rates & Better Buys

MINI-LESSON · PROJECT ON YOUR BOARD BEFORE THE BATTLE

What is a Unit Rate?

A **rate** is a ratio that compares two quantities measured in different units — for example, \$4.00 for 8 ounces of crackers, or 240 miles in 4 hours. A **unit rate** rewrites that ratio so the second quantity is exactly 1. We divide the first quantity by the second: $\$4.00 \div 8 \text{ oz} = \$0.50 \text{ per ounce}$. The word *per* is the giveaway — it always signals a unit rate. Other examples you see every day: miles per gallon, slices per dollar, words per minute, dollars per kilogram.

The Three-Step Better-Buy Method

1	2	3
IDENTIFY Read both offers carefully. Identify the price and the quantity (oz, lb, jars, fl oz, mL) for each product.	DIVIDE Divide price by quantity to get the unit rate: price $\div$ quantity. Round money answers to the nearest cent.	COMPARE Compare the two unit rates. The smaller unit rate wins — it means you pay less per unit of product.

Worked Example: Applesauce Showdown

Let us work through Card 1 together. **Store A** sells 4 jars of applesauce for \$8.00. **Store B** sells 5 jars for \$15.00. Which is the better buy? Both jars contain the same 24 ounces, so we can compare 'price per jar' rather than 'price per ounce'.

Step 1 — Identify	Store A: \$8.00 for 4 jars Store B: \$15.00 for 5 jars
Step 2 — Divide	Store A: $\$8.00 \div 4 \text{ jars} = \$2.00 \text{ per jar}$ Store B: $\$15.00 \div 5 \text{ jars} = \$3.00 \text{ per jar}$
Step 3 — Compare	$\$2.00 < \$3.00$, so Store A is the better buy. Save \$1.00 per jar.

Worked Example: Complex Fraction (Card 9)

When quantities or prices are not whole numbers, we still use the same three-step method — but the division produces a complex fraction. **Jar A** sells 18 oz of peanut butter for \$4.50; **Jar B** sells 28 oz for \$6.30. We can write each as a fraction and then simplify:

Jar A: $\$4.50 / 18 \text{ oz} = 450 / 1800 = 1 / 4 = \$0.25 \text{ per oz}$

Jar B: $\$6.30 / 28 \text{ oz} = 630 / 2800 = 0.225 = \$0.225 \text{ per oz} (\approx \$0.23 \text{ per oz})$

CARD NO. 01 · Applesauce Jars · TIER 1

CATEGORY PANTRY · OBJECTIVE Find the better buy

Store A	VS	Store B
\$8.00 for 4 jars YOUR UNIT RATE:		\$15.00 for 5 jars YOUR UNIT RATE:
\$ _____ ÷ _____ = \$ _____ per _____		\$ _____ ÷ _____ = \$ _____ per _____

Which is the better buy? ☐ Store A ☐ Store B

★ ★ ★ ANSWER TAB · FOLD BACK TO SELF-CHECK ★ ★ ★

BETTER BUY: \$2.00 per jar

Store A charges \$2.00 per jar while Store B charges \$3.00 per jar. Since \$2.00 < \$3.00, Store A offers the better buy. The 4-jar pack saves \$1.00 per jar compared with the 5-jar pack.

UM Printables · Better Buy Battle · Card 01 of 24 · Tier 1: Whole-Number Unit Rates

CARD NO. 09 · **Peanut Butter** · TIER 2

CATEGORY **PANTRY** · OBJECTIVE **Find the better buy**

Jar A	VS	Jar B
\$4.50 for 18 oz. YOUR UNIT RATE:		\$6.30 for 28 oz. YOUR UNIT RATE:
\$ _____ ÷ _____ = \$ _____ per _____		\$ _____ ÷ _____ = \$ _____ per _____

Which is the better buy? ☐ Jar A ☒ Jar B

★ ★ ★ ANSWER TAB · FOLD BACK TO SELF-CHECK ★ ★ ★

BETTER BUY: \$0.225 per oz

Jar A: \$0.25/oz. Jar B: \$0.225/oz. Jar B is the better buy. The complex fraction 6.30/28 simplifies to 0.225 — round to \$0.23 per ounce for money contexts. Jar B saves about \$0.025 per ounce, or about \$0.70 over the whole 28-ounce jar.

UM Printables · Better Buy Battle · Card 09 of 24 · Tier 2: Complex Fractional Rates

CARD NO. 17 · **Cereal (with coupon)** · TIER 3

CATEGORY **PANTRY** · OBJECTIVE **Find the better buy**

Brand A	VS	Brand B
\$3.75 for 18 oz. YOUR UNIT RATE:		\$6.00 for 24 oz. YOUR UNIT RATE:
\$ _____ ÷ _____ = \$ _____ per _____		\$ _____ ÷ _____ = \$ _____ per _____

Which is the better buy? ☐ Brand A ☒ Brand B

★ ★ ★ ANSWER TAB · FOLD BACK TO SELF-CHECK ★ ★ ★

BETTER BUY: \$0.2083 per oz

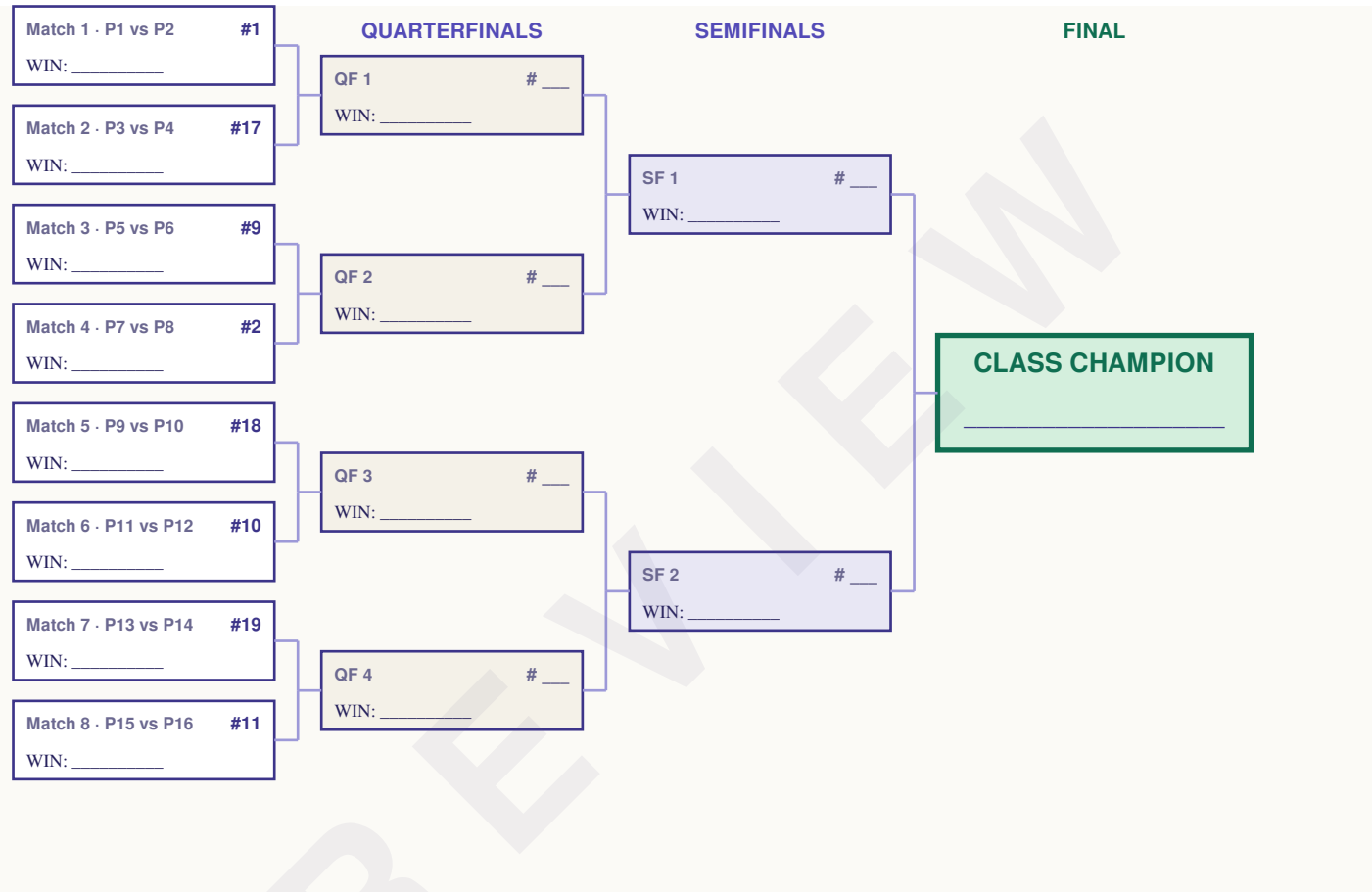
Step 1: Apply Brand A's coupon: $\$4.50 - \$0.75 = \$3.75$. Step 2: Compute unit rate: $\$3.75 \div 18 \text{ oz} = \$0.2083/\text{oz}$. Brand B: $\$6.00 \div 24 \text{ oz} = \$0.25/\text{oz}$. Brand A is the better buy by \$0.04 per ounce, even after using the coupon. Coupons do not always win — always verify with the unit rate.

UM Printables · Better Buy Battle · Card 17 of 24 · Tier 3: Multi-Step Real-World

CLASSROOM TOURNAMENT

Battle Bracket — Class Champion

Pair students. Each match: compute both unit rates, identify the better buy, defend your reasoning. The winner advances.



SETUP Choose 8 cards (2 Tier 1, 3 Tier 2, 3 Tier 3). Seed each in Round 1.	RECORDING All students complete the recording sheet for every card they play — even non-advancing players.
MATCH PLAY Pairs compute both unit rates. First to identify the better buy AND defend reasoning advances.	SPORTSMANSHIP The champion takes a 'victory lap' to explain their winning strategy to the class.
TIEBREAKER If both answer correctly in 60 seconds, the student with cleaner work advances.	SCORING Score 1 point per correct better-buy identification. Highest total after 4 rounds = class champion.

CHALLENGE · EXTENSION

Exit Ticket — Challenge

Directions: Solve the multi-step problem, then design your own comparison.

Problem: Store A sells a 20-ounce box of cereal for \$5.00 with a \$0.75 coupon. Store B sells a 16-ounce box for \$4.50 with a 20%-off sale. Which is the better buy?

Store A final price: \$_____ ÷ 20 oz = \$_____ per oz

Store B final price: \$_____ ÷ 16 oz = \$_____ per oz

Better buy: _____ Why? _____

Your Turn — Design a Card: Invent a Tier-3 comparison using two products from your kitchen.

Product 1: _____ Price: \$_____ Quantity: _____

Product 2: _____ Price: \$_____ Quantity: _____

Special condition (coupon, BOGO, bulk, or unit conversion): _____

Better buy: _____ Unit rate proof: _____

Tier 2 · Complex Fractional Rates

#	Product	Store A	Store B	Better Buy	Why
09	Peanut Butter	Jar A $\$4.50 \div 18 \text{ oz} = \$0.25/\text{oz}$ \$0.25 per oz	Jar B $\$6.30 \div 28 \text{ oz} = \$0.225/\text{oz}$ \$0.225 per oz ($\approx$ \$0.23/oz)	Store B \$0.225 per oz	Jar A: \$0.25/oz. Jar B: \$0.225/oz. Jar B is the better buy. The complex fraction $6.30/28$ simplifies to 0.225 — round to \$0.23 per ounce for money contexts. Jar B saves about \$0.025 per ounce, or about \$0.70 over the whole 28-ounce jar.
10	Laundry Detergent	Bottle A $\$9.60 \div 64 \text{ fl oz} = \$0.15/\text{fl oz}$ \$0.15 per fl oz	Bottle B $\$12.88 \div 92 \text{ fl oz} = \$0.14/\text{fl oz}$ \$0.14 per fl oz	Store B \$0.14 per fl oz	Bottle A: \$0.15/fl oz; Bottle B: \$0.14/fl oz (rounded from 0.14). Bottle B is the better buy. The complex fraction $12.88/92 = 0.14$ (to the nearest cent). Bottle B saves about \$0.01 per fluid ounce — small per ounce, but \$0.92 over the full bottle.
11	Shampoo	Brand A $\$5.40 \div 12 \text{ fl oz} = \$0.45/\text{fl oz}$ \$0.45 per fl oz	Brand B $\$8.32 \div 16 \text{ fl oz} = \$0.52/\text{fl oz}$ \$0.52 per fl oz	Store A \$0.45 per fl oz	Brand A: \$0.45/fl oz vs. Brand B: \$0.52/fl oz. Brand A is the better buy, saving \$0.07 per fluid ounce. Even though Brand B has 4 more fluid ounces, you pay a premium of more than 15% per ounce for that extra volume.
12	Olive Oil	Bottle A $\$9.00 \div 500 \text{ mL} = \$0.018/\text{mL}$ \$0.018 per mL	Bottle B $\$12.00 \div 750 \text{ mL} = \$0.016/\text{mL}$ \$0.016 per mL	Store B \$0.016 per mL	Bottle A: \$0.018/mL; Bottle B: \$0.016/mL. Bottle B is the better buy, saving \$0.002 per mL. Across 750 mL that adds up to \$1.50 in savings. Comparing per milliliter makes the metric sizes directly comparable.
13	Ground Coffee	Bag A $\$8.40 \div 12 \text{ oz} = \$0.70/\text{oz}$ \$0.70 per oz	Bag B $\$15.36 \div 24 \text{ oz} = \$0.64/\text{oz}$ \$0.64 per oz	Store B \$0.64 per oz	Bag A: \$0.70/oz; Bag B: \$0.64/oz. Bag B is the better buy, saving \$0.06 per ounce. Across the full 24-ounce bag, that is \$1.44 in savings versus buying two 12-ounce bags of Brand A to get the same amount.
14	Honey	Jar A $\$5.60 \div 8 \text{ oz} = \$0.70/\text{oz}$ \$0.70 per oz	Jar B $\$7.80 \div 12 \text{ oz} = \$0.65/\text{oz}$ \$0.65 per oz	Store B \$0.65 per oz	Jar A: \$0.70/oz; Jar B: \$0.65/oz. Jar B is the better buy. The complex fraction $7.80/12$ simplifies to 0.65 exactly. You save \$0.05 per ounce — multiply by 12 ounces and you save \$0.60 on the jar.
15	Pasta Sauce	Jar A $\$3.60 \div 24 \text{ oz} = \$0.15/\text{oz}$ \$0.15 per oz	Jar B $\$6.30 \div 45 \text{ oz} = \$0.14/\text{oz}$ \$0.14 per oz	Store B \$0.14 per oz	Jar A: \$0.15/oz; Jar B: \$0.14/oz. Jar B is the better buy. The complex fraction $6.30/45$ simplifies to 0.14. Although Jar B costs more in total, you save a penny per ounce, which adds up to \$0.45 across the entire jar.
16	Orange Juice	Carton A $\$4.13 \div 59 \text{ fl oz} = \$0.07/\text{fl oz}$ \$0.07 per fl oz	Carton B $\$5.34 \div 89 \text{ fl oz} = \$0.06/\text{fl oz}$ \$0.06 per fl oz	Store B \$0.06 per fl oz	Carton A: \$0.07/fl oz; Carton B: \$0.06/fl oz. Carton B is the better buy. The complex fractions $4.13/59$ and $5.34/89$ both happen to round cleanly to \$0.07 and \$0.06 respectively. Across 89 fl oz, you save \$0.89 versus Carton A's per-ounce rate.

Tier 3 · Multi-Step Real-World

#	Product	Store A	Store B	Better Buy	Why
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COMPLETE RESOURCE BREAKDOWN

What's Inside

24

TASK CARDS

8 per tier with self-checking answer tabs

3

DIFFERENTIATED TIERS

Whole numbers → fractions → multi-step

1

BATTLE BRACKET

8-slot tournament for class competition

3

RECORDING SHEETS

One per tier for student accountability

3

EXIT TICKETS

Modified · On-Level · Challenge

49

TOTAL PAGES

Teacher guide + answer key included

★ **ALIGNED TO COMMON CORE STATE STANDARDS** ★

7.RP.A.1 · 7.RP.A.2 · 7.RP.A.2b · 7.EE.B.3

Get the Full 49-Page Resource on TPT

Search "Better Buy Battle Unit Rate Task Cards" on TPT