

# Rates and Unit Rates

Lesson 4-1

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Class:** \_\_\_\_\_

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# Key Vocabulary Level 2 Standard

Picture first, then the word, then a plain-language meaning. Say each word out loud.



*\$12 for 4 games is a rate*

## Rate

Write the definition:

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*\$3 per 1 game*

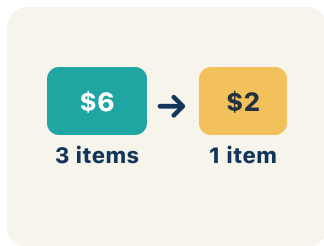
## Unit Rate

Write the definition:

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*60 miles per hour means 60 miles for every 1 hour*

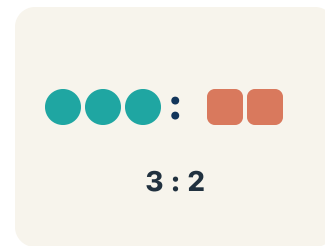
## Per

Write the definition:

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*5 to 3 or 5:3*

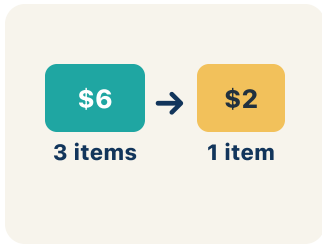
## Ratio

Write the definition:

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*Pack A: \$0.50 per pencil vs Pack B: \$0.40 per pencil – Pack B is the better buy*

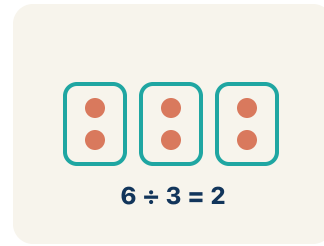
### **Better Buy**

**Write the definition:**

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*\$12 ÷ 4 games = \$3 per game*

### **Divide**

**Write the definition:**

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## Guided Notes Level 2 Standard



### WHAT WE'RE LEARNING TODAY

I can find a unit rate to compare prices and decide the better buy.



Fill in each blank as we go. Use the Word Bank to help you.



### WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Rate

Unit Rate

Per

Ratio

Better Buy

Divide



Tap any word to see what it means and a picture.

1 A ratio that compares two quantities with different units is a

2 A rate that tells the cost or amount for one unit is a .

3 The word that means 'for each one' is .

4 A comparison of two quantities is a .

5 The option with the lower unit rate, costing less per item, is the

.

6 To find a unit rate, I  the price by the number of units.



### Watch & Try – Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.


 **I do – watch**


Follow each step as your teacher solves it.

**Problem:** A booth charges \$4.50 for 9 games. What is the unit rate?

- A. \$0.50 per game
- B. \$0.45 per game
- C. \$2.00 per game
- D. \$4.50 per game

**Step 1**  $\$4.50 \div 9 = \$0.50$  per game.

 **Answer:** A. \$0.50 per game

 **We do – together**

Solve this one with your class using the same steps.

**Problem:** A car travels 180 miles using 6 gallons of gas. What is the unit rate in miles per gallon?

- A. 30 miles per gallon
- B. 6 miles per gallon
- C. 180 miles per gallon
- D. 36 miles per gallon

**Step 1** \_\_\_\_\_

**Step 2** \_\_\_\_\_

**Answer:** \_\_\_\_\_

 **You do — your turn**

Now try one on your own. Show every step.

**Problem:** A pack of 8 markers costs \$6.00. What is the cost per marker?

- A. \$0.75
- B. \$0.80
- C. \$1.33
- D. \$0.60

Show your work:

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## Try It

Solve on your own. Check the answer key when you are done.

**1. Two cabinets give points over time. Nova scored 78 points in 6 minutes. Pulse scored 75 points in 5 minutes. Which cabinet has the faster scoring rate (more points per minute)?**

- A. Pulse, at 15 points per minute
- B. Nova, at 13 points per minute
- C. They score at the same rate
- D. There is not enough information

Show your work:

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**2. Two claw machines cost coins per play. Machine A charges 150 coins for 5 plays. Machine B charges 168 coins for 8 plays. Which machine is the better value (fewer coins per play)?**

- A. Machine B, at 21 coins per play
- B. Machine A, at 30 coins per play
- C. They are the same value
- D. Machine A, because it costs fewer coins total

Show your work:

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## Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

**An arcade sells tokens in three packs: 25 tokens for \$5, 60 tokens for \$10.80, and 100 tokens for \$19. A student says the 100-token pack is always the best deal because you get the most tokens. Is the student correct? Find all three unit rates and explain.**

*Sentence starter: The student is \_\_\_ because the best deal is the \_\_\_ pack with a unit rate of \$\_\_\_ per token.*

Show your work:

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## Reflect — Exit Ticket

**A store sells 6 pencils for \$1.50 and 10 pencils for \$2.80. Which is the better buy?**

- A. 6 for \$1.50 — \$0.25 each
- B. 10 for \$2.80 — \$0.28 each
- C. They cost the same per pencil
- D. Not enough information

Your answer:

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