

Unit Rate Match



STANDARD: TEKS 6.4(D) Give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients.

CCSS.MATH.CONTENT.6.RP.A.3.B Solve unit rate problems including those involving unit pricing and constant speed.

PLAYERS: 1-4

MATERIALS:

- 1 set of unit rate cards
- Paper and Pencil
- Recording Sheet
- Answer Key

DIRECTIONS:

1. Arrange the unit rate cards face down in an array so that student pairs can reach them.
2. Have a pair of students turn over three of the unit rate cards and try to determine if any of the cards are a match.
3. Other pairs share whether or not they agree. Discussion is encouraged by the teacher or the Leader.
4. If there is a triad match, then the pair gets to keep the cards.
5. Once a card is turned over, it remains face up until it is matched with two other cards.
6. After a match has been made, the players race to see who will be first to solve the unit rate problem on the recording sheet.
7. Continue with the remaining cards.

Challenge: Create new unit rate problems and cards.

Verizon charges \$76.00 for 500 minutes	$\frac{76.00}{500}$
Hummer gets 300 miles on 20 gallons of gas	$\frac{300}{20}$
\$75 for 15 hamburgers	$\frac{75}{15}$
Babysitting for 8 hours and making \$72	$\frac{72}{8}$
Skydiver falls 144 feet in 3 seconds	$\frac{144}{3}$

1 bag of pretzels for \$3 or 5 bags for \$10	$\frac{10.00}{5}$
Maria walks 12 miles in 3 hours	$\frac{12}{3}$
84 points in <i>six games</i>	$\frac{84}{6}$
A 5-pound bag of apples for \$3.75	$\frac{3.75}{5}$
Five shirts for \$21	$\frac{21.00}{5}$

Two cans of tuna
cost \$6

$$\frac{6.00}{2}$$

5 batteries cost
20 dollars

$$\frac{20}{5}$$

\$13 for
4 books

$$\frac{13.00}{4}$$

18 inches of
snow in 6 hours

$$\frac{18}{6}$$

Five oranges for
\$2.65

$$\frac{2.65}{5}$$

$\frac{\text{dollars}}{\text{minute}}$

$\frac{\text{dollars}}{\text{bag}}$

$\frac{\text{miles}}{\text{gallon}}$

$\frac{\text{miles}}{\text{hour}}$

$\frac{\text{dollars}}{\text{burger}}$

$\frac{\text{points}}{\text{game}}$

$\frac{\text{dollars}}{\text{hour}}$

$\frac{\text{cost}}{\text{pound}}$

$\frac{\text{feet}}{\text{second}}$

$\frac{\text{cost}}{\text{shirt}}$

dollars
can

dollars
battery

cost
book

inches
hour

cost
orange

Unit Rate Recording Sheet

Name _____

Find the unit rate for each problem. Show your work.

1. Verizon charges \$76.00 for 500 minutes.
2. A Hummer can travel 300 miles on 20 gallons of gas.
3. Gina had a party and bought 15 hamburgers. She paid \$75.
4. Five bags of pretzels cost \$10.
5. Mario walked 12 miles in 3 hours.
6. Sergio scored 84 points in the first six games of the season.
7. A 5-pound bag of Gala apples is \$3.75.
8. Desmond made \$72 pet sitting. He played with pets for eight hours.
9. A skydiver falls 144 feet in three seconds.
10. There is a sale at Old Navy. You can buy five shirts for \$21.
11. You spent twenty dollars on five batteries for your lamp.
12. It snowed 18 inches in just six hours yesterday morning.
13. Kroger is selling the best oranges. Kia decided to buy one for herself and 4 friends. She spent \$2.65.
- 15 The school book fair has a great deal on books. Just \$13 for four books.
- 14 Oscar the Grouch doesn't like tuna but buys two cans anyway. He gave them a \$10 and got \$4 in change.

Unit Rate Recording Sheet **ANSWER KEY**

Name _____

Find the unit rate for each problem. Show your work.

1. Verizon charges \$76.00 for 500 minutes.
0.152 per minute
2. A Hummer can travel 300 miles on 20 gallons of gas.
15 miles per gallon of gas
3. Gina had a party and bought 15 hamburgers. She paid \$75.
\$5 per hamburger
4. Five bags of pretzels cost \$10.
1 bag of pretzels is \$2
5. Mario walked 12 miles in 3 hours.
4 miles per hour
6. Sergio scored 84 points in the first six games of the season.
14 points per game
7. A 5-pound bag of Gala apples is \$3.75.
.75 per pound
8. Desmond made \$72 pet sitting. He played with pets for eight hours.
\$9 per hour
9. A skydiver falls 144 feet in three seconds.
48 feet per second
10. There is a sale at Old Navy. You can buy five shirts for \$21.
\$4.20 per shirt
11. You spent twenty dollars on 5 batteries for your lamp.
\$4 per battery
12. It snowed 18 inches in just six hours yesterday morning.
3 inches per hour
13. Kroger is selling the best oranges. Kia decided to buy one for herself and 4 friends. She spent \$2.65.
.53 per orange
- 15 The school book fair has a great deal on books. Just \$13 for four books.
\$3.25 per book
- 14 Oscar the Grouch doesn't like tuna but buys two cans anyway. He gave them a \$10 and got \$4 in change.
\$3 per can

Name



Unit Rate Match

Read the word problem. Use what you know about unit rate to determine your answer. Show your work.

A carpenter charges \$720 for 18 hours of work. She charges the same amount of money for each hour of work.

Which table shows the relationship between the amount of time the carpenter works and the amount of money she charges?

A Carpenter's Charges

Amount of Time Worked (hours)	Amount Charged (dollars)
2	80
4	160
6	240
8	320

C Carpenter's Charges

Amount of Time Worked (hours)	Amount Charged (dollars)
3	75
5	125
7	175
9	225

B Carpenter's Charges

Amount of Time Worked (hours)	Amount Charged (dollars)
19	720
20	738
21	756
22	774

D Carpenter's Charges

Amount of Time Worked (hours)	Amount Charged (dollars)
14	720
15	720
16	720
17	720

Name



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Amount of Time Worked (hours)	Amount Charged (dollars)
14	720
15	720
16	720
17	720

Exit Questions:

1. What did you learn today?
(Use mathematical language.)
2. How did the activity connect with the SE or TEK?
3. How does this concept connect with your real life?