

DAY2

AGENDA

Warm-Up

7-ELEVEN
SLURPEE

Cornell Notes:

Unit Rates

THINK-PAIR-
SHARE

WARM UP COMPLETE THE TABLE BELOW

FRACTION	DECIMAL	PERCENT
$\frac{2}{5}$		
	.60	
		85%
$\frac{1}{8}$		
$\frac{3}{9}$		

HINT:

D \leftrightarrow F

number (w/o deci pt.)/100

then reduce

D \leftrightarrow P

move decimal point
two places right

• Write 1.11 as a percent?

• Write 1.11 as a fraction?



Ratios, Rates, Unit Rates and Proportions



Three ways to write ratios:

1) 6:2 simplified to 3:1

2) 6 to 2 simplified to 3 to 1

3) $\frac{6}{2}$ simplified to $\frac{3}{1}$





write the ratio of
the squares to the
triangles in 3 ways:



write the ratio of dogs to cats:



A **proportion** is an equation that shows two equivalent ratios.

$$\frac{2}{1} = \frac{4}{2}$$

$$\frac{4}{2} = \frac{8}{4}$$

$$\frac{2}{1} = \frac{6}{3}$$

Read as $2/1 = 4/2$ as "two is to one as four is to two"

Cross Products in Proportions are equal

$$\frac{4}{8} = \frac{2}{4}$$

$$8 \times 2 = 4 \times 4$$

$$16 = 16$$

$$\frac{3}{5} = \frac{9}{15}$$

$$5 \times 9 = 3 \times 15$$

$$45 = 45$$

$$\frac{9}{6} = \frac{3}{2}$$

$$6 \times 3 = 9 \times 2$$

$$18 = 18$$

Lets see if we can find the missing \

$$\frac{5}{6} = \frac{N}{18}$$



Lets find the missing value in each proportion

A. $\frac{3}{5} = \frac{N}{1}$

B. $\frac{3}{8} = \frac{12}{x}$

C. $\frac{1}{6} = \frac{E}{4}$

D. $\frac{3}{9} = \frac{E}{2}$



**click the world
go to the last pag**

7-ELEVEN SLURPEES

are sold in four sizes

<u>size</u>	<u>price</u>
8 oz	\$3.6
12 oz	\$5.5
16 oz	\$7.4
20 oz	\$9.1

Which size would you choose?
Explain

• What is the cost per ounce of the:

1) 8 oz. cup?

2) 12 oz. cup?

3) 16 oz. cup?

4) 20 oz. cup?

• To make a 20 ounce SLURPEE, Jaylen purchased an 8 ounce and a 12 ounce. Justify Jaylen's decision.

Topic:
Unit Rates

Lesson Essential Question:

How can unit rates help us make an better decisions about our money?

**What is a
UNIT
RATE?**

UNIT RATES
a special comparison
between a measurement
to one unit.

**Looks
Like...**

written with a denominator
of one.
45 miles per hour = 45 ^{miles}/_{hour}
\$2 per pound = \$2/_{pound}

**What do I
do?**

Divide:
 $\frac{2}{3} \text{ meters} = \frac{2}{3} \div \frac{1}{6}$
 $\frac{1}{6} \text{ hour} \quad \frac{2}{3} \bullet \frac{6}{1}$
 $\frac{12}{3} = \frac{4}{1}$
Ans: 4 meters per hour

GRAPHICALLY



**As a TEAM, tell whether each situation is a
DEAL or a STEAL...**

Kevin:
pack of 20
pencils for \$2.

Tyce:
pack of 30
pencils for \$2.70.

Alex:
case of 50
pencils for \$4.60.

**DEAL
By How
Much?**

SAME

**As a TEAM, tell whether each situation is a
DEAL or SAME...**

Jordan:
one subject
notebook for \$0.79.

Jaysha:
three one subject
notebooks for
\$2.25.

Cory:
five one subject
notebooks for
\$3.75.

DEAL

SAME

**As a TEAM, rank each person from
FASTEST or a SLOWEST...**

Hezekiah:
runs 100-meters in
14.1 seconds

Kierra:
runs 50-meters in
7.03 seconds.

Cory:
runs 75-meters in
10.5 seconds

Jessica:
runs 25-meters in
3.5 seconds.

Lacey:
runs 100-meters in
14 seconds

FASTEST

SAME RATE

SLOWEST