

Dear Super Sixth Grade,

- Good Morning!
- Today is TALKING TUESDAY! In the chat box talk about two things:
 1. Best ways to prepare for a test
 2. The formula for BOTH distance and work problems.
- Let's have a great day! ~ Mrs. Oakes

If you
choose not to
participate,
turn volume
down until we
move to next
slide.



**I pledge allegiance
to the flag of the
United States of
America,
and to the republic
for which it stands,
one nation under God,
indivisible, with liberty
and justice for all.**

Student Expectations...

Being part of this “school” is awesome! How can YOU make this ocean even more awesome??.



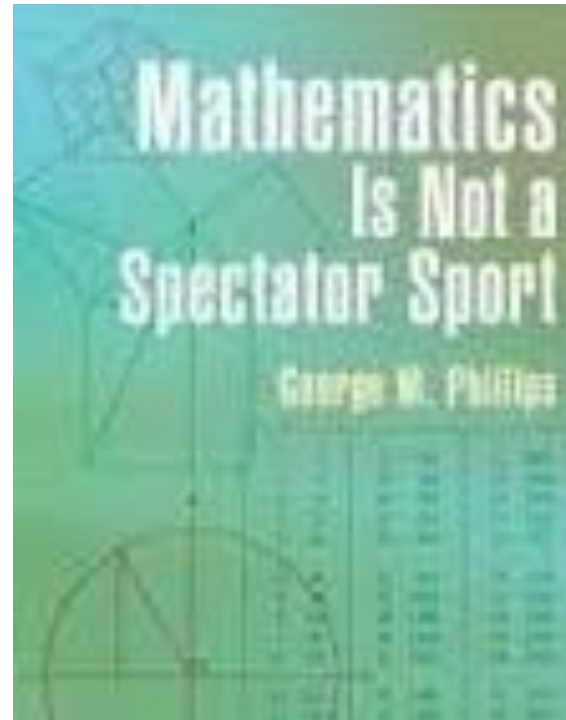
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- ✓ I will BE HERE! **respond** when my name is called, use **polling tools** , **complete classwork**, **notes**, and **chat** to participate!
- ✓ I will **choose my attitude!**
- ✓ I will **demonstrate respect** and **follow directions** for my classmates and teachers to help **make their day!**
- ✓ I will have **fun** learning!

EVERYONE needs a working mic. Call 1-866-K12-care if it's not working. Let's get it fixed!

GET A CALCULATOR, Notebook
AND PENCIL READY!!!!



ALERT: Unit 12 Test FRIDAY!



HOMework:

- **STUDY STUDY STUDY**
- Come to Office Hours if you need extra help
- Review in OLS if you need extra help
- Watch recordings

Unit 12 Review

Day 1

Rates

Distance Formula

Work Formula

Objectives:

- Students will review for Unit 12 Test
- Students will find the rate or unit rate for a given situations
- Students will calculate distance and work using $D=RT$ and $W=RT$

RATE

- Makes A Comparison with two different units
- The Units NEED to be labeled
- Unit Rate displayed as ONE unit

25 miles

2 hours



Rate

12.5 miles

1 hour



Unit Rate

Example:

- “Julie studied 224 spelling words in 14 days. If Julie studied the same number of words each day, how many spelling words did she study per day?”
- Set Up Rate
- Divide Numerator by denominator

- $$\frac{224 \text{ spelling words}}{14 \text{ days}}$$



Rate

- $$\frac{16 \text{ words}}{1 \text{ day}}$$



Unit Rate

100 Points: Use your polling tools!

- Nik goes rafting. He travels 27 miles in 4.5 hours. How many miles per hour is Nik traveling?
 - A. 22.5 miles per hour
 - B. 6 miles per hour
 - C. 9 miles per hour
 - D. 52 miles per hour

200 Points: Use Your Polling Tools

- 2 students are running a long race. Which student is running faster?

Student 1: $\frac{28 \text{ Miles}}{7 \text{ hours}}$



Student 2: $\frac{29 \text{ miles}}{6 \text{ hours}}$



CONSTANT RATE

A rate that does not change over time

Compare Rates



$$d = rt$$
$$240 = \frac{80 \text{ km}}{\text{h}} \cdot 3 \text{ h}$$



$$w = rt$$
$$30 \text{ plants} = \frac{15 \text{ plants}}{\text{day}} \cdot 2 \text{ days}$$

DISTANCE FORMULA

$$D = RT$$



Distance

Rate

x

Time

Distance = rate x time

The distance formula can be rewritten in 3 ways.

$$d = rt$$

$$\frac{d}{t} = r$$

$$\frac{d}{r} = t$$

WORK FORMULA

$$W = RT$$



Work

Rate

x

Time

Work = rate x time

There are three ways to write the work formula.

$$W = rt$$

Solve for r .

$$\frac{W}{t} = r$$

Solve for t .

$$\frac{W}{r} = t$$

Example:

- Amazon Prime makes 60 deliveries in 10 days. How long will it take for Amazon to make 420 deliveries?

- Set Up Rate 60 deliveries/ 10 days

- Find Unit Rate: 6 Deliveries/ Day

- Select Formula: Solve for t .

$$\frac{W}{r} = t$$

- Solve: $\frac{420 \text{ deliveries}}{6 \text{ deliveries/ day}} = 70 \text{ days to make 420 deliveries}$

100 Points: Use Your Tools!

- Grace can print 12 pictures in 3 minutes. How many pictures can she print in 15 minutes?
 - A. 20 pictures
 - B. 60 pictures
 - C. 30 pictures

200 Points: Use Your Polling Tools!

- A window washer can wash 15 windows per hour. How long will it take him to wash 300 windows?
 - A. 15 hours
 - B. 900 hours
 - C. 20 hours

300 Points: Use Your Polling Tools

If A deer can run 17 feet per second, how far can it run after 40 seconds?

- A. 57 feet
- B. 680 feet
- C. 400 feet

QUESTIONS:



NICE WORK TODAY!



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