1/19/17 CCM6+7+

1. Write in agenda...HW is study units 4-7 for the RETEST MONDAY.

2. Get out your cumulative review of U4-7.

3. Get out your calculator.

*Get cell phone!

CCM6+/7+ Quarter 2 Review Name: _____ Date: _____

UNIT 4 – EQUATIONS

1. What is the value of p? $12p - 16 = -44 + 16p$ $-12p \quad +44 \quad +44 \quad -12p$ $28 = 4p$	1. $p = 7$
2. What is the value of x? $\frac{2}{7}x - 9 = -15$ $+9 \quad +9$ $\frac{7}{2} \cdot \frac{2}{7}x = -6 \cdot \frac{7}{2}$ $x = -21$	2.
3. What is the value of x? $\frac{2}{3}x - 18.5 = -12.5$ $+18.5 \quad +18.5$ $\frac{3}{2} \cdot \frac{2}{3}x = 6 \cdot \frac{3}{2} \rightarrow x = 9$	3.
4.) Three consecutive even integers have a sum of 18. Find the integers. 4, 6, 8	4. $x + x + 2 + x + 4 = 18$ $3x + 6 = 18$ $3x = 12$ $x = 4$
5.) John's age is 4 more than 3 times Michael's age. If the sum of their ages is 20, how old are John and Michael? 16 4	5. John = $3m + 4$ Michael = m $m + 3m + 4 = 20$ $4m + 4 = 20$ $4m = 16$ $m = 4$

More for Unit 4...

1) $\frac{3}{8}x - 5 = -11$

$+5 \quad +5$

$\frac{3}{8}x = -6$

$\frac{8}{3} \cdot \quad \cdot \frac{8}{3}$

$x = -16$

2. Joey has three times as much chocolate as Barry. Amy has two less than twice as much chocolate as Barry. Together they have 34 pieces of chocolate. How many pieces does each person have?

Joey $= 3b = 18$

Barry $= b \quad +6$

Amy $= 2b - 2 = 10$

34

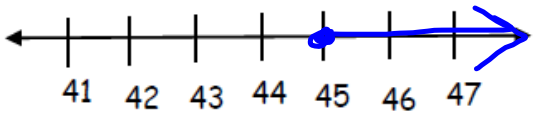
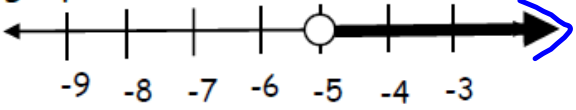
$6b - 2 = 34$

$+2 \quad +2$

$6b = 36$

$b = 6$

UNIT 5 – INEQUALITIES

1. List at least three values that make the following inequality true: $3x + 1 \geq 10$	1. $x \geq 3$
2. At minimum, Chloe's parents will give her \$45 to purchase a gift. Write and graph an inequality to represent this situation.	2. $x \geq 45$ 
3. What is the solution to the inequality: $-4x - 16 \geq -33$ $+16 \quad +16$ $-4x \geq -17$ $\frac{}{-4} \quad \frac{}{-4}$	3. $x \leq \frac{17}{4}$ or $4\frac{1}{4}$ or 4.25
4. Write an inequality for the graph below. 	4. $x > -5$
5. To decorate her new bed, Minnie wants to purchase a new comforter and several throw pillows. The comforter costs \$63 and each throw pillow costs \$13. If she wants to spend no more than \$154, how many pillows, p, could she buy? Select the inequality that represents this situation. A. $63p + 13p \leq 154$ B. $63p + 13p \geq 154$ C. $63 - 13p \leq 154$ D. $63 + 13p \leq 154$	5.

More for Unit 5...

1) $-2x - 6 + |x| > -12$

$-x - 6 > -12$

$+6 \quad +6$

$-x > -6$

$x < 6$

Name 3 numbers that make this true:

$5x - 3 \geq 22$

5¢ less

UNIT 6: RATIOS, RATES and PROPORTIONS

1. Quick Stop offers 3 slushies for $5.70. Wallaby Station sells 5 slushies for $9.75. Which convenience store has the best price for one slushie? What is the savings per slushie?	1. $\frac{5.70}{3}$ 1.90@ $\frac{9.75}{5}$ 1.95@
2. At Bart's Beach Buggies, the ratio of scooters to golf carts is 5:2. If Bart owns 91 vehicles, how many are scooters? (A tape diagram might help.)	2. $\frac{5}{7} = \frac{65}{91}$
3. Mimi drove $258\frac{2}{5}$ miles in $3\frac{4}{5}$ hours. Write and solve a proportion to determine the distance she could travel in 19 hours.	3. $\frac{258.4}{3.8} = \frac{492}{19}$
4. Georgetown and Franklin are 9.7 in apart on a map that has a scale of 1.1 in : 15 mi. How far apart are the real cities?	4. $\frac{1.1}{15} = \frac{9.7}{132.27}$
5. 8.5 meters is equivalent to how many feet (1 meter ≈ 3.281 feet)? Round your answer to the nearest tenth.	5. $\frac{1}{3.281} = \frac{8.5}{27.9}$

UNIT 7: PERCENTS

1. Arturo has completed 27 math problems, which is 75% of the assignment. How many problems total did he have to complete?	1. $\frac{27}{36} = \frac{75}{100}$
2. Lettie buys a shirt for $15 and a pair of jeans for $23. If the store is having a 40% off sale, how much will she have to pay for the two pieces of clothing?	2. $.6(38) =$ $\$22.80$
3. Louisa and Abbi go out for lunch. If the bill before tax was $23.25 and the bill after tax was $24.75, what is the tax rate to the nearest tenth of a percent?	3. $24.75 - 23.25 = 1.50$ $150 : 23.25$ $\frac{6.5}{100}$ 6.5%
4. The real estate agent said the house had 2450 square feet, but when you measured it actually had 2000 square feet. What is the percent of error?	4. $\frac{450}{2000} = \frac{22.5}{100}$
5. You borrow $10,000 to buy a car. You will pay 11.5% simple interest over 5 years. How much will you pay at the end of five years?	5. $I = 10,000(11.5\%)(5) = \$5750$ Balance $= \$15,750$

More for unit 7...

You borrow $4000 from Grandma at 3% simple interest and will pay her back in 4 years. After the four years, what will you pay Grandma?

$4,480

You paid $35.79 for a shirt that was 80% off. What was the original price for the shirt?

35.79 20

$178.95 = 100

You invited 12 friends to your party but only 9 showed up. What was your percent of error?

$\frac{3}{9}$ 33%

Kahoot