

Today's CCGPS Standards

- MCC9-12.A.SSE.1 Interpret expressions that represent a quantity in terms of its context.
- MCC9-12.A.SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients.
- MCC9-12.N.Q.1 Use units as a way to understand problems and guide the solution of multi-step problems; choose and interpret the scale and the origin in graphs and data displays.
- MCC9-12.N.Q.2 Define appropriate quantities for the purpose of descriptive modeling.
- MCC9-12.N.Q.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

August 24, 2015

Warm-up

1.
$$2x^3 + 5x - 7$$

1. Terms $2x^3$, 5x - 7Factors $2x^3$, 5x

Constants -7

2.
$$6\pi r^2 - 5\pi$$

2. Terms $6\pi^2$, -5π Factors $6,\pi$, $(^2,-5,\pi)$

Coefficients 67

Constants >51

For problems 1 and 2, match the terms, coefficients, constants, and factors of the given expressions.

1.
$$x^3 + 25x - 8$$

1. Terms ____ x³, 25x, -8

Factors 25, x

Coefficients 1, 25

Constants -8

2.
$$2\pi rh + 10\pi$$

2. Terms _____2πrh, 10π

Factors 2, π , r, h and 10, π

Coefficients 2π

Constants 10 π

For problem 3, translate each verbal expression to an algebraic expression.	Then,
identify the terms, coefficients, and constants of the given expressions.	

3. The sum of a number squared and twice the number.

Alg. Expression x² + 2 x

Terms _____x², 2 x

Coefficients _____1, 2

Constants _____none

For problems 4-6, translate each verbal expression to an algebraic expression.

4. At Sam's you can buy 10 bags of meatballs at a 25% discount

with a \$35 membership

5. A number cubed increased by twice the number.

$$\begin{array}{c} er. \\ 5. \underline{\hspace{1cm}} X^3 + 2X \end{array}$$

6. The difference between five times a number squared and eight.

Use Dimensional Analysis to solve the following problems. Show all work for credit!!

7. Johnny bowls with a 16-pound ball. How many grams is that.

8. Lucy walks Point South Golf Club, which is 6700 yards. How many miles is that?

9. Rory hits a driver 330 yards in golf. The distance around the Earth is 24000 miles. How many shots would Rory need to go around it.

10. Summer's bas	sketball cou	rt took 6 tons	of ceme	nt.		
How many kilo	grams of cei	ment is that?	10	5454.54 k	g	
11. How many pint	1100 s of milk ma	2.2 lbs ke a kiloliter?	11	2114.16 pin	ts	
12. 3 ounces of po	1000/ 1 k/ owder make	1 pint .473 s a quart of p	rotein dr	ink,		
so how many g	rams make	a liter?	12	90.06	g/L	
1 ge	102	.946 L				

13. You spend 10 minutes a day brushing your teeth (I hope).

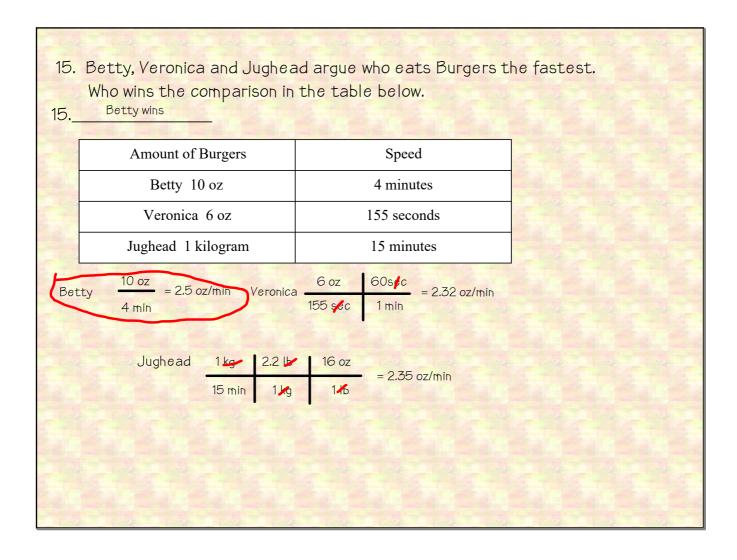
How many days in a 80-year lifetime are spent brushing? (Oh, and floss too)

13. 20278 days/lifetime

14. A picture frame cutter processes a frame in 2 minutes. The company makes \$17 for each frame. How much money is he producing per hour? \$510/hr

Per week? (40 hrs/week)

$$\frac{1 \text{ frame}}{2 \text{ min}} = \frac{\$17}{1 \text{ frame}} = \frac{\$510}{\text{hr}}$$



Homework



Study for TEST!

