

Math 8 - Quarter 1 - Week 1 Weekly Spiral Review

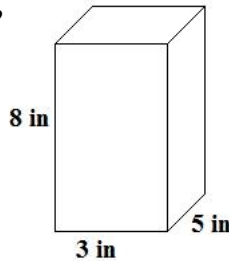
Due Fri. 7/14/17

- Suppose a dog can run 60 feet in 8 seconds. A cat can run 35 feet in 5 seconds. Which animal can run faster? How much faster?
- Brandon purchased three cheeseburgers for \$1.29 each and two milkshakes for \$2.75 each. If sales tax is 7.5%, what is the total of Brandon's purchase? *Round to the nearest hundredth.*
- Below is the weight of the five football players from each team. How much higher is the median weight of the Panthers compared to the Steelers?

Panthers		Steelers	
Cam Newton	245	Ben Roethlisberger	240
Greg Olsen	253	DeAngelo Williams	207
Mike Tolbert	250	Antonio Brown	181
Michael Oher	315	Le'Veon Bell	225
Thomas Davis	235	Ryan Shazier	230

- Solve the inequality. $8 \leq -2x + 16$
- Kabir is laying tile on his rectangular kitchen floor. The dimensions of the floor are $15\frac{1}{2}$ feet by 12 feet. If he is using square tiles with a side length of $\frac{1}{2}$ foot, how many tiles will he need to cover the floor?

- What is the surface area of this figure?



- What is the difference between the students' Mean Absolute Deviation?

Student	Test 1	Test 2	Test 3	Test 4
Caleb	70	83	91	98
Isaiah	80	86	83	90

- Elizabeth's bathroom is 8 feet by 6 feet. She is laying square tiles with a side length of 3 inches. How many tiles does she need?
- Solve for x. $-2 = 2 + \frac{x}{4}$
- Chris has 28 t-shirts. One fourth of the t-shirts are red, three-sevenths of the t-shirts are blue; the remainder of the t-shirts are gray. How many gray t-shirts does he own?

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11. Anthony needs a new suit. He has a 20% off coupon that will be applied before a tax of 7.5% is applied to his total. How much will he end up paying for a \$275 suit? *Round to the nearest hundredth.*
12. Angles X and Y are supplementary. Angle X measures $2x-9$. Angle Y measures 135 degrees. What is the value of x?
13. Emily is ordering a pizza online. She will randomly select one crust type, sauce, and topping. What is the probability she will select Hand Tossed crust, red sauce, and mushrooms?

Crust Type	Sauce	Toppings
Thin	Red Sauce	Cheese
Hand-Tossed	White Sauce	Pepperoni
Pan		Mushrooms
		Spinach

14. Based on the table, write an equation to represent the dollars earned, d, for any amount of hours worked, h.

Hours	Dollars Earned
2	5
4	10
5	12.5
8	20

15. Stephanie saved \$25 every week for 7 months. Then she spent 65% of the money for a new bike. How much money did she have left?
16. David made a scale drawing of his basketball goal. The basketball goal is 15 feet tall. In the drawing the basketball goal is 3 inches. What is the scale of the drawing?
17. Diamond is playing Yahtzee with her family. She is using five dice, numbered 1-6. What is the probability she will roll all even numbers?
18. Simplify the expression $-3(5x - 2y) + 6(4y + x)$
19. Cameron took his girlfriend out to dinner for her birthday. Dinner was \$55.92. Tax on the meal was 7.5% of the price of the meal. They left a tip that was 18% of the meal and tax. What is the total cost of the meal?
20. Solve for x. $-4x - 7 > 1$