

# Sample Brain Buster Questions

*(Shows 1-16)*

The actual Brain Buster Question will be slight variation of the following questions.

	<i>Question</i>	<i>Answer</i>
1.	A scientist starts out with 2 cells on the first day of an experiment. How many cells will he have in 8 days if each cell doubles each day?	$2^8 = 256$
2.	In a football game a Touchdown is 6 points. A Touchdown with an Extra Point is 7 points. A Field Goal is 3 points and a Safety is worth 2 points. What are all the ways that you can score 12 points?	TD+TD FG+FG+FG TDE+S+FG S+S+S+S+S+S TD+S+S+S TD+FG+FG
3.	Your class is selling cans of pop for a school fund raiser. The school buys 2,000 cans at \$4.99 per 20 cans and sells them at \$0.50 a can. How much profit does the school make?	$2000/20 = 100$ $100(4.99) = \$499$ $2000(0.50) =$ $\$1000$ $\$1000 - \$499 =$ <b>\$501 Profit</b>
4.	Write an equation for this story and solve. Twenty kids tried their skills at an egg-tossing contest. Five were eliminated after the first throw. The rest were divided into three groups, and each participant was given an additional two eggs. How many eggs does each group have now?	$(20 - 5) \div 3 \times 2$  10 eggs

5.	There are 12 ounces of raisins in a bag. The store sells 3 bags for \$2.25. What is the cost per ounce? Round your answer to the nearest penny.	1 bag = \$0.75 \$0.06 per ounce
6.	Find the median of all positive odd multiples of 3 that are less than 40.	21
7.	If Point Q is located at (3, 4) is moved to the right 1 unit and up 3 units and reflected across the x-axis, what is its new location?	(4, -7)
8.	A store has 27 six-packs, 15 twelve-packs, and 34 single cans of soda. Write an expression using the 27, 6, 15, 12, and 34 to show how many cans the store has all together. Then evaluate your expression to find the number of cans.	$27 \times 6 + 15 \times 12 + 34 = 376$
9.	The top three best-selling albums of all times are Michael Jackson's <i>Thriller</i> (24 million copies), Fleetwood Mac's <i>Rumors</i> (17 million copies), and Boston's <i>Boston</i> ( $b$ million copies). The three albums sold a combined total of 56 million copies. Write an equation to model this situation. How many million copies of Boston were sold?	$24 + 17 + b = 56$ or $b = 56 - 24 - 17$ or $b = 56 - (24 + 17)$ 15 million copies
10.	There are 8 oz. of chocolate chips in a bag. The store sells 3 bags for \$5. What is the approximate cost per ounce?	\$0.21 per ounce
11.	2 feet plus 3 feet plus 4 yards plus 6 inches = ? A. 210 in. B. 22 1/2 ft. C. 11.5 yd D. All of the above	A. 210 inches

12.	The watermelon is $\frac{1}{6}$ of the total weight of the bag. If the watermelon is 4lbs. How much does the bag weigh once the watermelon is taken out?	20 lbs.
13.	Wolf brand dog food costs \$.25 per can or \$5.80 per case. Pup brand dog food costs \$.30 per can or \$6.85 per case. Wags brand dog food costs \$.15 per can or \$3.50 per case. Which brand is cheapest? Which is most expensive? What is the savings if you buy per case rather than buying 24 individual cans of each brand of dog food?	Cheapest: Wags brand dog food Most expensive: Pup brand dog food. Savings per case: Wolf 20 cents each. Pup: 35 cents and Wags: 10 cents each case
14.	Mr. Williams earns \$2,150.00 a week. Mr. Sanchez earns $\frac{1}{2}$ of Mr. Williams. Mr. Smith earns 3 times more than Mr. Sanchez. What are their combined earnings per week?	\$6450.00
15.	A square has the following coordinate points: Pt. H (0,0); Pt. J (3,0); Pt. T (0,3); and Pt. Z (3,3). If the square is reflected across the y-axis, what are the new coordinate points?	H (0,0); J(-3, 0) T (0,3); Z (-3,3);
16.	If Pt. R is located at (5,3) is moved to right 1, up 2 and reflected across the y-axis, what is its new location?	(-6, 5)