



14. Fred phones every 3 days, Barney every 4 days, and Wilma every 8 days. If all three phoned on October 27, on what day will all three phone again?  
a. November 25      b. November 5      c. December 20      d. November 20
15. What is the sum of all the whole number positive factors of 42?  
a. 79      b. 96      c. 36      d. 53
16. Ivy baked brownies for math team practice. She baked them in a 8 in. by 12 in. pan. How many students can she serve if she cuts them into 2 in. x 2 in. squares and serves one per student?  
a. 48      b. 16      c. 22      d. 24
17. One liter contains 1.8 ounces more than one quart. How many ounces are in a 3-liter bottle of Mountain Dew?  
a. 53.4      b. 101.4      c. 77.4      d. 113.4
18. What is the sum of the prime numbers between  $\sqrt{25}$  and  $\sqrt{400}$ ?  
a. 72      b. 67      c. 76      d. 81
19. Chris bought one dozen chocolate covered donuts for math team practice. He ate one-third of them on the way to school. Jon ate one-fourth of the remaining donuts before practice began. When Bob arrived, he ate all that were left. How many donuts did Bob eat?  
a. 3      b. 4      c. 5      d. 6
20. The measure of three angles in a quadrilateral is  $90^\circ$ ,  $130^\circ$ , and  $55^\circ$ . What is the measure of the fourth angle?  
a.  $55^\circ$       b.  $65^\circ$       c.  $75^\circ$       d.  $95^\circ$
21. What is the positive difference in the sum of the composite numbers between 10 and 20 and the sum of the prime numbers between 10 and 20?  
a. 15      b. 0      c. 30      d. 35
22. If  $5a = 70$  and  $8b = 20$ , what is the value of  $ab$ ?  
a. 28      b. 35      c. 16.5      d. 90
23. What is the measure of the supplement of a  $50^\circ$  angle?  
a.  $130^\circ$       b.  $40^\circ$       c.  $30^\circ$       d.  $110^\circ$
24. Elisa bought 2 pounds of gummy bears at \$2.50 per pound and 3 pounds of gooey bears at \$4.00 per pound. What was the average cost per pound?  
a. \$3.10      b. \$3.25      c. \$3.40      d. \$1.25
25. By how much does the product of 3, 4, and 5 exceed  $3^2 + 4^2 + 5^2$ ?  
a. 10      b. 48      c. 58      d. 20

### Tie Breakers

1. What is the sum of all the factors of 91?
2. What is the 12<sup>th</sup> number in the following sequence?  
1, 4, 9, 16, 25, 36,...
3. The perimeter of a regular octagon and a regular hexagon are equal. If the length of one side of the octagon is 7.5 cm, what is the length of side of the hexagon?