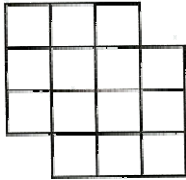


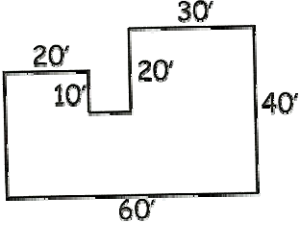
Team Bowl 7

1.	What is the smallest 3-digit number that can be obtained from 4921508 by crossing out 4 digits? (Note: the order cannot be changed)	1. _____
2.	How many different squares are there in the figure shown below? 	2. _____
3.	The numbers 2, 4, 6 and 8 are a set of four consecutive even numbers. Suppose the sum of five consecutive even numbers is 320. What is the smallest of the five numbers?	3. _____
4.	A 40-foot by 10-foot rectangular garden is enclosed by a fence. To make the garden larger, while using the same amount of fencing, its shape is changed to a square. How many square feet larger than the old garden is the new garden?	4. _____ sq ft

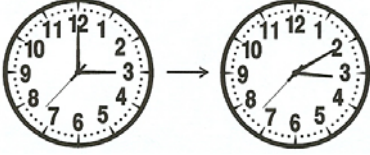
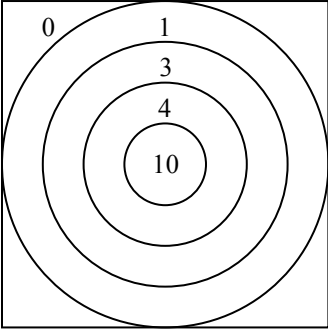
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5.	<p>A rectangular candy wrapper is made from a one-inch by three-inch piece of paper. What is the greatest number of wrappers that can be cut from a rectangular piece of paper measuring one foot by two feet?</p>	5. _____																																							
6.	<p>The four-digit numeral 3AA1 is divisible by 9. What digit does A represent?</p>	6. A= _____																																							
7.	<p>If $40\blacklozenge$ represents a positive three-digit integer with a ones digit of \blacklozenge, and $1\blacklozenge$ is a positive two-digit integer with a ones digit of \blacklozenge, what value of \blacklozenge makes the equation $40\blacklozenge \div 27 = 1\blacklozenge$ true?</p>	7. $\blacklozenge =$ _____																																							
8.	<div style="text-align: center; margin-bottom: 10px;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="3">Column</th> <th></th> </tr> <tr> <th colspan="2"></th> <th>1</th> <th>2</th> <th>3</th> <th></th> </tr> </thead> <tbody> <tr> <th rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Row</th> <th>1</th> <td style="text-align: center;">□</td> <td style="text-align: center;">△</td> <td style="text-align: center;">□</td> <td style="text-align: center;">18</td> </tr> <tr> <th>2</th> <td style="text-align: center;">□</td> <td style="text-align: center;">△</td> <td style="text-align: center;">○</td> <td style="text-align: center;">22</td> </tr> <tr> <th>3</th> <td style="text-align: center;">△</td> <td style="text-align: center;">A</td> <td style="text-align: center;">△</td> <td style="text-align: center;">20</td> </tr> <tr> <th>4</th> <td style="text-align: center;">○</td> <td style="text-align: center;">B</td> <td style="text-align: center;">△</td> <td style="text-align: center;">20</td> </tr> <tr> <th colspan="2"></th> <td style="text-align: center;">27</td> <td style="text-align: center;">23</td> <td style="text-align: center;">30</td> <td></td> </tr> </tbody> </table> </div> <p style="margin-top: 10px;">This is a logic grid. Write numbers in the shapes to make the equations true. Find the number value of A and of B. Same shapes must have the same numbers. Different shapes must have different numbers. The number at the end of each row and each column is the sum.</p>			Column						1	2	3		Row	1	□	△	□	18	2	□	△	○	22	3	△	A	△	20	4	○	B	△	20			27	23	30		<p>8. A= _____</p> <p style="margin-left: 20px;">B= _____</p>
		Column																																							
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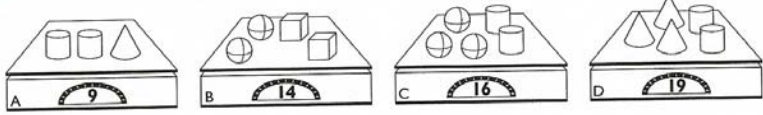
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9.	<p>Mary got either a 90 or a 100 on each of her 5 math tests. The average of all her math tests is 98. How many 90s did she get?</p>	9. _____
10.	<p>The floor plan for a single-story house is shown. Each pair of consecutive sides is perpendicular. What is the area of the floor for the house whose dimensions are given?</p> 	10. _____ sq ft
11.	<p>Pi plates cost \$24 each. Shipping costs \$10 for orders under \$100 and \$15 for orders of \$100 or more. How much more does it cost to order and have delivered five Pi plates instead of four Pi plates?</p>	11. \$ _____
12.	<p>If a standard six-sided die is rolled twice, what is the probability that the result of the second roll is greater than or equal to the result of the first roll? Express your answer as a common fraction.</p>	12. _____

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13.	If 2,300 gallons fills 80% of a container, how many more gallons would be needed to fill the container?	13. _____ gallons
14.	<p>How many degrees does the minute hand of a clock move during a 10-minute period?</p> <div style="text-align: center;">  </div>	14. _____ degrees
15.	<p>It is possible to earn 0, 1, 3, 4 or 10 points with each shot in the game of Blippy. How many positive scores less than 30 cannot be achieved in three shots?</p> <div style="text-align: center;">  </div>	15. _____
16.	<p>Charlene considers herself to be a great bargain shopper because she found a prom dress that cost her only \$22 before tax. The dress was on a rack labeled “50% off lowest marked price,” and the lowest marked price was already a 75% reduction from the original price. What was the original price of the dress?</p>	16. \$ _____

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<p>17.</p>	<div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p>Find the weight of each block.</p>	<p>17. cylinder= _____ lbs cube= _____ lbs sphere= _____ lbs cone= _____ lbs</p>
<p>18.</p>	<p>Noah will mount a 5-inch by 5-inch photograph on an 8-inch by 10-inch mat board. How many square inches of mat board will be visible?</p>	<p>18. _____ sq in</p>
<p>19.</p>	<p>What is the product of the mode and the median of this set of numbers? $\{0, 11, 1, 19, 8, 1, 11, 19, 5, 8, 3, 16, 1, 7\}$</p>	<p>19. _____</p>
<p>20.</p>	<p>How many positive, odd, three-digit numbers exist such that the sum of the tens digit and the units digit equals the hundreds digit?</p>	<p>20. _____</p>