



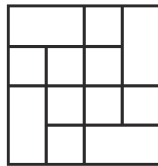
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Warm-Up 10

121. _____ feet When the sun was at a particular place in the sky, a 40-foot tall vertical tree cast a 60-foot long shadow on the ground. Two years later, the tree had grown to 60 feet tall. When the sun was again at that particular place in the sky, how many feet longer was its shadow?
122. _____ What is the absolute difference between the median and mean of $\frac{5}{8}$, $\frac{3}{5}$ and $\frac{13}{20}$?
123. _____ ft² Spot is on a 9-foot leash that is attached to an outside corner of his doghouse. If Spot's doghouse is a regular hexagon of side length 9 feet, how many square feet is the entire area that Spot can reach outside of the doghouse? Express your answer in terms of π .
124. _____ times A path drawn in the coordinate plane begins at (1, 1), then goes up 2 units, right 2 units, up 3 units, right 3 units, up 4 units, right 4 units, and so on. Each time, the number of units up increases by 1, and the number of units right increases by 1 until the path ends at (91, 91). How many times does this path from (1, 1) to (91, 91) intersect the line $y = x$?
125. _____ Filip expresses a number in the form $4x + 5$. Gala expresses the same number as $6x - 7$. If Henry wants to express this number in the form $5x + d$, what would be the value of d ?
126. _____ cm The length of the base of a particular triangle is 2 cm more than its height. If the triangle has area 12 cm², what is its height?
127. (_____, _____) The point (5, 12) is rotated 90 degrees counterclockwise about the origin. What are the coordinates of its image? Express your answer as an ordered pair.

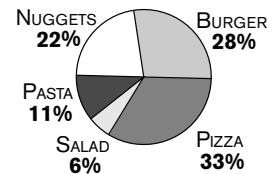
128. _____ rec-
tangles



How many rectangles of any size are in the figure shown?

129. _____ students The circle graph shows what percent of the students who bought lunch on Friday ordered each of the five lunch options available at Lowe HS. If 132 students ordered pizza, what is the total number of students who bought lunch at Lowe HS on Friday?

STUDENT LUNCH ORDERS



130. _____ If $a \textcircled{n} b = \frac{a^n + b^n}{n}$, what is the value of $5 \textcircled{2} (1 \textcircled{3} 2)$?