Sagamore Math Tournament

Grades 4-5 cipher round

From 12/05 tournament
Suppose each time you lose a baby tooth, the Tooth Fairy doubles what she gave you for the previous lost tooth. For the first tooth you get 10 cents. For the second tooth you get 20 cents. For the third tooth, 40 cents. How much will you get for the 10th tooth you lose?
For what value of $X$ does

$$1 + 2 + 3 + 4 + \cdots + X = 120$$

hold?
What is the difference between $\frac{6^2 \times 6^2}{6}$ and $\frac{6^2 + 6^2}{6}$?
Find the lowest common multiple of 12, 16, 18.
What is the sum of the series

$$1+2-3+4+5-6+7+8-9 \cdots -18+19+20-21$$
What is the least positive integer that has exactly 9 factors?
What was the median high temperature for a week in which the daily high temperatures were 52, 63, 57, 56, 64, 40, and 51?
What is the positive difference between the number of doughnuts in 50 dozen and the number of slices of pizza (8 slices per pizza) in 80 pizzas?
The sides of a square are 10 inches long. If you increase each side by 50% by how many square inches will the area of the square grow?
When you get home this afternoon, you decide to rake the yard. If it takes you 30 seconds to rake 20 square feet, how many minutes will it take you to rake an area 50 feet by 80 feet?