6) If $x - 4(x + 2) = -15.5$, what is the value of x?
Write your answer in the box below.

7) Which of the following answers represents the compound inequality $-4 \leq 4x - 8 < 16$?

☐A. $-2 \leq x \leq 8$ ☐B. $-2 < x \leq 8$

☐C. $1 < x \leq 6$ ☐D. $1 \leq x < 6$

8) What is the volume of a box with the following dimensions?
High = $4\,cm$, width = $5\,cm$, length = $6\,cm$

☐A. $15\,cm^3$ ☐B. $60\,cm^3$

☐C. $90\,cm^3$ ☐D. $120\,cm^3$

9) Simplify the expression.

$$(6x^3 - 8x^2 + 2x^4) - (4x^2 - 2x^4 + 2x^3)$$

☐A. $4x^4 + 4x^3 - 12x^2$ ☐B. $4x^3 - 12x^2$

☐C. $4x^4 + 4x^3 + 12x^2$ ☐D. $8x^3 - 12x^2$

10) In two successive years, the population of a town is increased by 15% and 20%. What percent of the population is increased after two years?

☐A. 32% ☐B. 35%

☐C. 38% ☐D. 68%

11) Last week 24,000 fans attended a football match. This week three times as many bought tickets, but one sixth of them cancelled their tickets. How many are attending this week?

☐A. 48,000 ☐B. 54,000

☐C. 60,000 ☐D. 72,000

12) What is the perimeter of a square in centimeters that has an area of $595.36\,cm^2$?
Write your answer in the box below. (don't write the measurement)