Equation and Solution of the Equation

1. **Choose the correct option:**

   a. State which of the following are equations (with a variable).

   i) $5x + 3 = 14$ ☐ ii) $34 - 4 > 5$ ☐ iii) $a + 5 < 7$ ☐

   b. If x takes the varibale 4, then x+5 is

   i) 9 ☐ ii) 10 ☐ iii) 7 ☐

   c. Which of the following equations has x = 5 as a solution?

   i) $x + 9 = 4$ ☐ ii) $x + 4 = 9$ ☐ iii) $x + 3 = 8$ ☐

   d. If y = 18, for $x = \frac{y}{2}$, then the value of x is

   i) 9 ☐ ii) 36 ☐ iii) 18 ☐

   e. If y = 164, the value of $\frac{1}{4}$ y is

   i) 656 ☐ ii) 41 ☐ iii) 164 ☐

2. **State which of the following are equations (with a variable). Identify the variable from the following equations.**

   a. $x + 15 = 50$ _____

   b. $(q - 8) < 9$ _____

   c. $6x < 50$ _____

   d. $80 = 6x + 2$ _____

   e. $(9 \times 5) - 20 = 25$ _____

3. Solve the following equations:

a. $x - 7 = 2$

b. $y + 3 = 18$

c. $7x = 420$

d. $\frac{x}{5} = 20$