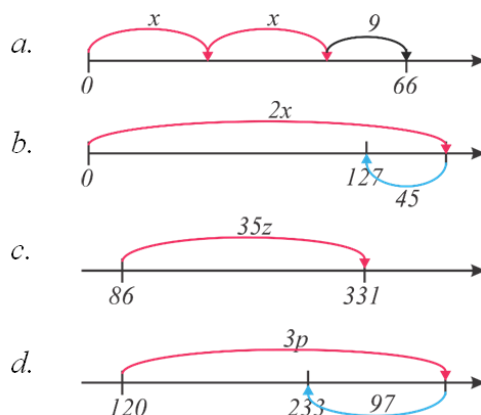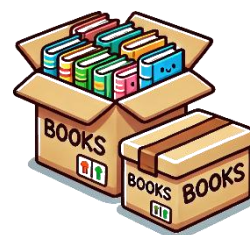1. Write the following as mathematical expression. If this expression is an equation, solve it.

   a. Sum of the number x and 15 equals to 20.

   b. Product of y and 10.

   c. Difference between three times z and 4 is equal to 12.

   d. Half of the number b is equal to 1.5

   e. Product of the numbers of 5 and x is less than 12.

2. Based on the drawing below, write equations and solve them:

   a.

   b.

   c.

   d.

3. There were 624 books in two boxes altogether. When $\frac{1}{3}$ of the books from one box and $\frac{3}{7}$ of the books from another box were sold to the customers, the number of books in each box became equal. How many books there were in each box at the beginning?

4. Evaluate:

   a. $6\frac{6}{11} \cdot \frac{3}{4} : 2\frac{2}{5} \cdot 2\frac{1}{5}$;

   b. $9\frac{1}{3} : \frac{7}{8} \cdot \frac{7}{16} : \frac{4}{27}$.

5. On the street, standing in a circle, four girls are talking: Anna, Valerie, Grace, Nadia. The girl in the green dress (not Anna and not Valerie) stands between the girl in the blue dress and Nadia. The girl in the white dress stands between the girl in the pink dress and Valerie. What color dress is each of the girls wearing?

6. Without doing actual calculations show that the following statements are true:

a. $\dfrac{1}{3}+\dfrac{1}{4}>\dfrac{1}{2}$;

b. $\dfrac{1}{5}+\dfrac{1}{6}+\dfrac{1}{7}+\dfrac{1}{8}>\dfrac{1}{2}$

7. Fill the table using the algorithm;

a	4	5	7	8
x				