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## FUNDAMENTAL CONCEPTS

→ **Constant**: A symbol having a fixed numerical value is called a constant.  
Ex: 7, 19, 20, 3, ...

→ **Variable**: A symbol which takes various numerical values is called a variable.  
Ex: x, y

### EXERCISE 18 (A)

1. Express each of the following statements in algebraic form:

Ans:

i)  $x + 8 = y$

iii)  $8x \div y = 2z$

ii)  $x - 5 = y$

2ii)  $7x - 7y = 8z$

iii)  $2 + x > y$

2v)  $7y - 5x = 8z$

iv)  $x + y < 24$

v)  $15m = 3n$  or  $15 \times m = 3n$

vi)  $8y = 3x$

vii)  $z - 3x = y$

viii)  $12x = 5z$

ix)  $12x < 5z$

x)  $3z - 45 = y$

2. For each of the following algebraic expressions, write the suitable statement in words:

i)  $3x + 8 = 15$  = 3 times  $x$  added to 8 equal to 15.

ii)  $7 - y > x$  = 7 subtracted by  $y$  is greater than  $x$ .

iii)  $2y - x < 12$  =  $2y$  decrease by  $x$  is less than 12.

iv)  $5 \div z = 5$  = 5 divided by  $z$  equal to 5

v)  $a + 2b > 18$  =  $a$  plus  $2b$  greater than 18.

vi)  $2x - 3y = 16$  =  $2x$  decrease by  $3y$  equal to 16

vii)  $3a - 4b > 14$  =  $3a$  subtracted by  $4b$  <sup>is</sup> greater than 14

viii)  $b + 7a < 21$  =  $b$  added to  $7a$  is less than 21

ix)  $(16 + 2a) - x > 25$  = 16 added to  $2a$  and subtracted by  $x$  is greater than 25

x)  $(3x + 12) - y < 3a$  =  $3x$  added to 12 and subtracted by  $y$  is less than  $3a$ .

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