HW
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Chapter-18 Fundamental Concepts

Exercise 18A

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

i) The sum of 8 and x is equal to y. $8+x=y$
ii) x decreased by 5 is equal to y. $x-5=y$
iii) The sum of 2 and x is greater than y. $2+x>y$
iv) The sum of x and y is greater than y $x+y<24$
v) 15 multiplied by m gives 3n $15m=3n$
vi) Product of 8 and y is equal to 3x $8y=3x$
vii) 30 divided by b is equal to p. $\frac{30}{b}=p$
viii) z decreased by 3x is equal to y. $z-3x=y$
ix) 12 times of x is equal to 5z $12x=5z$
x) 12 times of x is greater than 5z. $12x > 5z$
xi) 12 times of x is less than 5z. $12x<5z$
xii) 3z subtracted from 45 is equal to y. $45-3z=y$
xiii) 8x divided by y is equal to 2z. $8x \div y=2z$
xiv) 7y subtracted from 5x gives 8z. $5x-7y=8z$
xv) 7y decreased by 5x gives 8z. $7y-5x=8z$

2: For each of the following algebraic expression, write a suitable statement in words:

i) $3x+8=15$	The sum of 3 times x and 8 is equal to 15.
ii) $7-y>x$	7 decreased by 4 is greater than x.
iii) $2y-x<12$	x decreased than two times of y is less
iv) $5 \div z=5$	5 divided by z is equal to 5.
v) $a+2b>18$	a increased by 2b is greater than 18
vi) $2x-3y=16$	2x decreased by 3y is equal to 16.
vii) $3a-4b>14$	3a decreased by 4b is greater than 14
viii) $b+7a<21$	b increased by 7b is greater than 14

9x) $(16+2a)-x>25$	The sum of 16 and 2a decreased by x is greater than 25.
x) $(3x+12)-y<3a$	The sum of 3x and 12 decreased by y is less than 3a.