## ADDITION AND SUBTRACTION.

22. We have worked out the examples in Art. 21 at full length, but in practice they may be abbreviated, by combining the symbols or digits by a mental process, thus

	c+d+		F	rom c-	-d+10	0
· · · ·	c-d-'	- 教育学校	1	ake c-	-d-7	1
Sum	20 +3		Remai	nder	2d + 1'	7

23. We have said that

instead of a + a we write 2a, ..... a + a + a ...... 3a,

and so on.

24.

Since

The digit thus prefixed to a symbol is called the coefficient of the term in which it appears.

Terms which have the same symbol, whatever their coefficients may be, are called *like* terms : those which have different symbols are called *unlike* terms,

Like terms, when positive, may be combined into one by adding their coefficients together and subjoining the common symbol : thus

> 2x + 5x = 7x,3y + 5y + 8y = 16y.

25. If a term appears without a coefficient, unity is to be taken as its coefficient.

Thus

Thus

x + 5x = 6x.

26. Negative terms, when like, may be combined into one term with a negative sign prefixed to it by adding the coefficients and subjoining to the result the common symbol.

> 2x - 3y - 5y = 2x - 8y,for 2x - 3y - 5y = 2x - (3y + 5y)= 2x - 8y.

So again 3x - y - 4y - 6y = 3x - 11y.

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