

1.5 Variables and Expressions

$$7 - \square = 2$$

↑

Variable - Letter, Symbol, Shapes
used to represent some value

$$\text{☺} + 2 \leftarrow \text{Expression}$$

Expressions do not have equal signs

$$2 + 4 \quad 3 \cdot (1 + 2)$$

Variable Expressions

$$x + y \quad \frac{2m + n}{\text{think } x(\text{multiply})}$$

$$\cancel{x} \cdot y \rightarrow x \cdot y$$

$$m^2 + m$$

Evaluate when $x=2$ $y=4$
(Substitute the value)

$x + y$	$4x - y$	$(y - x)^3$
$2 + 4$	$4 \cdot 2 - 4$	$(4 - 2)^3$
6	$8 - 4$	2^3
	4	8

Evaluate when $m=4$ $n=3$ $r=5$

$m + 3n - r$	$(2r - 4)^2 - 9n$
$4 + 3 \cdot 3 - 5$	$(2 \cdot 5 - 4)^2 - 9 \cdot 3$
$4 + 9 - 5$	$(10 - 4)^2 - 9 \cdot 3$
$13 - 5$	$(6)^2 - 9 \cdot 3$
8	$36 - 9 \cdot 3$
	$36 - 27$
	9

1	4	4.1
2	8	4.2
3	12	4.3
4	16	4.4
5	20	4.5
n	4n	

¶ 31-32

2-44 even, 48, 50