S2

CfE Level 3

Working at Home Workbook

Powers and Roots

Learning Intention. To be able to -
Square and cube numbers and also raise them to a power
Find the square root of any number and some simple cubes

Square and Cube Numbers and Raise Them to a Power

Question 1

Calculate:

a)	1^2	b)	2^2	c)	3^2
d)	4^2	e)	5^2	f)	6^2

g)	7^2	h)	8^2	i)	9^2
k)	10^2	l)	11^2	m)	12^2

Question 2

Calculate:

a)	$2^2 + 4^2$	b)	$3^2 - 1^2$	c)	$9^2 + 2^2$
d)	$8^2 - 5^2$	e)	$6^2 + 1^2$	f)	$4^2 + 3^2$

Question 3

Calculate:

a)	1^3	b)	2^3	c)	3^3
d)	4^3	e)	5^3	f)	6^3
g)	7^3	h)	8^3	i)	9^3
k)	10^3	l)	11^3	m)	12^3

Question 4

Calculate:

a)	1^5	b)	2^4	c)	2^5
d)	3^4	e)	10^8	f)	6^4

<u>Find the Square Root of Any Number</u>

Question 1

Calculate:

a)	$\sqrt{4}$	b)	$\sqrt{16}$
c)	$\sqrt{25}$	d)	$\sqrt{81}$
e)	$\sqrt{49}$	f)	$\sqrt{9}$
g)	$\sqrt{64}$	h)	$\sqrt{100}$