At the end of this lesson, you should be able to:

- ☐ Recall squares and square roots of a number
- ☐ Calculate operations including squares and square roots
- ☐ Complete number sequence patterns in squares & square roots
- ☐ Solve problems on area and perimeter of squares

Numbers, Operations & Algebra

SQUARES & SQUARE ROOTS OF A NUMBER

Let's consider the square of 3.	Let's consider the square root of 16.
SQUARE MULTIPLY 3 TWO TIMES $3^2 = 3 \times 3$ Therefore, $3^2 =$ _____	SQUARE ROOT FIND THE TWO SAME NUMBER THAT MULTIPLIES TOGETHER TO GIVE 16 $\sqrt{16} \rightarrow \square \times \square = 16$ Therefore, $\sqrt{16} =$ _____

Example: Evaluate the following:

a) $5^2 + 7^2$

b) $\sqrt[2]{(9+7)}$

c) $\sqrt[2]{9} + 5$

Example: Complete the following number sequence

a) 1, 4, 9, ___ , ___

b) 144, ____ , ____ , 81, 64

LIVEWORKSHEETS

SQUARES AND SQUARE ROOTS OF A NUMBER

EXERCISE A

NO	QUESTIONS	ANSWERS
1	Find the following without the use of a calculator a) $2^2 + 4^2$ b) $3^2 - 1^1$	a) b)
2	Find the following without the use of a calculator a) $\sqrt{25} - \sqrt{16}$ b) $\sqrt{9} - 2$ c) $\sqrt{36} + 2^2$	a) b) c)
3	Complete the number sequence below $1, 4, ____, ____, 25$	
4	The area of a square is 36 cm^2. Find the length of each of its side.	
5	The area of a square is 25 m^2. a. Find the length of each of its side. b. Find its perimeter.	a) b)

LIVEWORKSHEETS

SQUARES AND SQUARE ROOTS OF A NUMBER

EXERCISE B

NO	QUESTIONS	ANSWERS
1	Find the following without the use of a calculator a) $8^2 + 9^2$ b) $11^2 - 7^2$	a) b)
2	Find the following without the use of a calculator a) $\sqrt{49} - \sqrt{36}$ b) $\sqrt{64} - 5$ c) $\sqrt{121} + 9^2$	a) b) c)
3	Complete the number sequence below $144, 121, 100,$ ____, ____,	
4	The area of a square is 36 cm^2. Find the length of each of its side.	
5	The area of a square is 25 m^2. Find its perimeter.	

LIVEWORKSHEETS