

## GRADE 8 MATHAMATICS

### LESSON 8 - SQUARE ROOT

Consider about this  $\sqrt{\quad}$  this is the symbol of the square root. The square of a positive integer is called **a perfect square**

1.  $1 \times 1 = 1^2 = 1 = \sqrt{1} = \sqrt{1^2} = 1$
2.  $2 \times 2 = 2^2 = 4 = \sqrt{4} = \sqrt{2^2} = 2$
3.  $3 \times 3 = 3^2 = 9 = \sqrt{9} = \sqrt{3^2} = 3$
4.  $4 \times 4 = 4^2 = 16 = \sqrt{16} = \sqrt{4^2} = 4$  Then continue this one for

$$20 \times 20 = 20^2 = 400 = \sqrt{400} = \sqrt{20^2} = 20$$

#### **Complete 8.1**

The digit in the unit's place of a perfect square

**0,1, 4., 5,6,9**

#### **Complete 8.2**

FIND SQUARE ROOT USING PRIME FACTORS

$$\sqrt{400}$$

$$400 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times$$

$$2^2 \times 2^2 \times 5^2$$

$$\sqrt{400} = \sqrt{2^2} \times \sqrt{2^2} \times \sqrt{5^2}$$

$$2 \times 2 \times 5$$

$$20$$

$$\sqrt{625} = \sqrt{5^2} \times \sqrt{5^2}$$

$$5 \times 5$$

$$25$$

#### **Complete activity 1**

**Complete 8.3      Complete 8.4**

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