

GRADE 8 MATHAMATICS

LESSON 8 - SQUARE ROOT

Consider about this $\sqrt{}$ 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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