

MasterMath

$$4^2 = 16$$

$$4 = \sqrt{16}$$

Number Sense

APPROXIMATING AND FINDING SQUARE ROOTS



APPROXIMATING AND FINDING SQUARE ROOTS

$$2 * 2 = 4$$

$$2^2 = 4$$

$$2 = \sqrt{4}$$



APPROXIMATING AND FINDING SQUARE ROOTS

Perfect Squares

x	x ²
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64

$$\sqrt{16} = 4$$

$$\sqrt{16} = -4$$

$$\sqrt{16} = \pm 4$$

x	x ²
-1	1
-2	4
-3	9
-4	16
-5	25
-6	36
-7	49
-8	64



APPROXIMATING AND FINDING SQUARE ROOTS

x	x ²
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64

$\sqrt{16} = 4$ $\sqrt{18} \approx 4.2$
 $\sqrt{18} = ?$ $4.2 * 4.2 = 17.64$
 $\sqrt{25} = 5$ $4.3 * 4.3 = 18.49$
 $\sqrt{18} \approx 4.25$

APPROXIMATING AND FINDING SQUARE ROOTS

What is the Square Root of 100?

You Try

APPROXIMATING AND FINDING SQUARE ROOTS

What is the Square Root of 100?

$10 * 10 = 100$
 $\sqrt{100} = 10$

You Try

APPROXIMATING AND FINDING SQUARE ROOTS

What is the approximate Square Root of 52

You Try It!

APPROXIMATING AND FINDING SQUARE ROOTS

What is the approximate Square Root of 52

$$7 * 7 = 49$$

$$\frac{3}{15} = .2$$



$$\sqrt{52} \approx 7.2$$

$$8 * 8 = 64$$

You Try It!

APPROXIMATING AND FINDING SQUARE ROOTS

Simplify: $\sqrt{36} \div \sqrt{4}$

You Try It!

APPROXIMATING AND FINDING SQUARE ROOTS

Simplify: $\sqrt{36} \div \sqrt{4}$

$$6 \div 2 = 3$$

$$\sqrt{36} \div \sqrt{4} = \sqrt{(36 \div 4)} = \sqrt{9} = 3$$

You Try 

APPROXIMATING AND FINDING SQUARE ROOTS

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