Introduction to Mathematics

Maths	English	
$x \times y$	x times y	x multiplied by y
$x + y$	x plus y	x add y
$x \div y$	x divided by y	x over y
$x - y$	x minus y · x takeaway y · x subtract y	
$=$	Equals	
x^2	x squared	x to the (power of) two
x^3	x cubed	x to the (power of) three
x^n	x to the (power of) n	
$\sqrt[n]{x}$	Nth root of x	
$\sqrt{x}$	Square root of x	
$\sqrt[3]{x}$	Cubed root of x	
$\frac{1}{2}$	One half	One over two
$\frac{1}{3}$	One third	One over three
$\frac{1}{4}$	One quarter	One over four
$\frac{3}{4}$	Three quarters	Three over four
$\frac{3}{10}$	Three tenths	Three over ten
-3	Negative three	Minus three

Activity 1: *Read these equations to your partner.*

1. 302×3
2. $\sqrt{144}$
3. $5,684 - 3^2$

Listen to your partner and write the answer below:

1.

2.

3.

Describing BIG and small numbers in English

100	Hundred	10^2
1,000	Thousand	10^3
1,000,000	Million	10^6
1,000,000,000	Billion	10^9
1,000,000,000,000	Trillion	10^{12}

Saying BIG numbers:

782, 356

Seven hundred **and** eighty two thousand, three hundred **and** fifty six

Nine hundred **and** eighty four million, six hundred **and** three thousand, one hundred **and** forty one

984, 603, 141

Saying small numbers:

0.006589

Zero point zero zero six five eight nine

Very, very BIG and very, very small numbers: **Scientific Notation (Standard form)**

$7,928,000,000,000,000 = \mathbf{7.928 \times 10^{15}}$

Seven point nine two eight times ten to the power of fifteen

$0.0000000000568 = \mathbf{5.68 \times 10^{-11}}$

Five point six eight times ten to the power of minus eleven

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Activity 2: *Read these numbers to your partner.*

1. 829,024,191
2. 2.432×10^{-9}
3. 324,556,742,609

Listen to your partner and write the number below:

1.

2.

3.