Research CommunicationⅠ April 14 2022

**Numbers & Numerical Expressions**

**Large Numbers**

* 2,500 two thousand five hundred / twenty-five hundred
* 1,700,000 one million seven hundred thousand / one point seven million
* 523,956,489,058,715　 five hundred twenty-three trillion,

nine hundred fifty-six billion,

four hundred eighty-nine million,

fifty-eight thousand,

seven hundred ( and ) fifteen

**Decimals**

* 0.674 zero point six seven four

**Fractions**

* $\frac{1}{3}$ one-third / a third
* $\frac{2}{3}$ two-thirds
* $\frac{3}{4}$ three-quarters / three-fourths
* 6$\frac{2}{7}$ six and two-sevenths
* $\frac{213}{867}$ two hundred (and) thirteen over eight hundred (and) sixty-seven

**Mathematical Symbols**

* *x* $=$ *y* *x* is equal to *y.* / *x* equals *y.*
* *x* $\ne $ *y x* is not equal to *y.*
* *x* $>$ *y x* is greater than *y.*
* *x* $\geq $ *y x* is greater than or equal to *y.*
* *x* $<$ *y x* is less than *y.*
* *x* $\leq $ *y x* is less than or equal to *y.*

**Addition**

* *x* $+$ *y* = *z x* plus *y* equals *z. / x* and *y* is *z.*

**Subtraction**

* *x*$ - $*y* = *z x* minus *y* equals *z.*
* $ - $*x*$ - $*y* =$ - $*z* negative *x* minus *y* equals negative *z. /*

minus *x* minus *y* equals minus *z.*

**Multiplication**

* *x* $×$ *y* = *z x* multiplied by *y* equals *z. / x* times *y* equals *z.*
* ( *x* $+$ *y* ) *z* = 0 the sum of *x* plus *y* times *z* equals zero

**Division**

* *x* $÷$ *y* = *z x* divided by *y* equals *z. / x* divided by *y* is *z.*

**Power**

* *x2* *x* squared
* *x3 x* cubed
* *x4 x*to the fourth power / *x*to the power of four
* *xn x*to the *n*th power / *x*to the power of *n*

**Root**

* $\sqrt{x}$ the square root of *x*
* $\sqrt[3]{x}$ the cube root of *x*
* $\sqrt[n]{x}$ the *n*th root of *x*

 Number Dictation

1. 　 　 　, 　 　 　, 　 　 　, 　 　 　,

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

2. 　 　 　, 　 　 　, 　 　 　, 　 　 　,

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

3. 　 　 　, 　 　 　, 　 　 　, 　 　 　,

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

4. 　 　 　, 　 　 　, 　 　 　, 　 　 　, 　 　 　　←You decide the number and your partner listens.

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

 Read Aloud!

* $53 + 27=80$$120 + 70= $190
* $71 -32=39$ $- 15 - 27=$ -42
* $50 ×12=600$ $7,000 ×600= $4,200,000
* $400÷8=50$ $1,200 ÷40= $30
* $\frac{1}{6}+\frac{3}{8}= \frac{13}{24}$
* *( a + b )2* = *a2 + 2ab + b2*
* $\sqrt{16} + \sqrt[3]{27}=7$

Answer

Number Dictation

1. 　 １ １, ８ ５ ４, ５ ７ ９, ２ ９ １, ６ ６ ０

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

2. 　 　 　, 　 ４ ６, ５ ０ ０, ０ ０ ０, ０ ０ ０ 　forty-six point five billion

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

3. ７ ６ ３, ０ ５ ２, ４ １ ７, ７ ８ ０, １ ２ ６

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

4. 　 　 　, 　 　 　, 　 　 　, 　 　 　,

　　　　　tr.　　　 bi.　　　 mi.　　　 th.

 Read Aloud!

* $53 + 27=80$$120 + 70= $190

Fifty three plus twenty seven equals eighty one hundred twenty plus seventy equals one hundred ninety

* $71 -32=39$ $- 15 - 27=$ -42

Seventy one minus thirty two equals thirty nine minus fifteen minus twenty seven equals minus forty two

* $50 ×12=600$ $7,000 ×600= $4,200,000

Fifty times twelve equals six hundred seven thousand times six hundred equals four point two million

* $400÷8=50$ $1,200 ÷40= $30

Four hundred divided by eight equals fifty one thousand two hundred divided by forty equals thirty

* $\frac{1}{6}+\frac{3}{8}= \frac{13}{24}$ one-sixth plus three-eighths equals thirteen over twenty four
* *( a + b )2* = *a2 + 2ab + b2*  the sum of a plus b squared equals a squared plus 2ab plus b squared
* $\sqrt{16} + \sqrt[3]{27}=7$ the square root of sixteen the cube root of twenty seven equals seven