

The Number Sensation

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www.NumberDojo.com



Summer's Already Over?

It's time to sharpen our minds and refresh our memories! For beginners, and probably even for more advanced mathletes, it's a good time to break out the flash cards. I recommend reviewing basic conversions, perfect squares & cubes, etc. Mastering these will save many precious seconds on number sense tests—especially in the first column and on estimations.

How to Memorize Using Flashcards:

Once you have created your flashcards, follow these steps:

1. Isolate the factoids you want to memorize (set the other flashcards aside). I've found that the optimal # to use is between 10 & 25 cards.
2. Shuffle the cards thoroughly.
3. Time yourself.
4. Test your memory. Looking at the front of the top card, say out loud what you think is on the back. Then check your answer. If you are correct, set the card aside in a "Know" pile. If you are incorrect, place this card at the back of the stack in your hand.
5. Repeat this process until you are out of cards.
6. Stop the timer.
7. Record your time.

Recognize that you saw the unknown (unlearned) cards the most often. The repetition of the unknown cards will soon sink into your memory. Repeat this process every day or two, and notice your time improving.

Upcoming Events

September 8

SAC – West Texas A&M

September 15

SAC – UT Rio Grande Valley

September 22

SAC – UT Arlington

Tricked Out

July's most-missed concepts:

EL: RemainDiv9

70618 ÷ 9 has a remainder of ___

MS: ConvFrac%

$\frac{7}{8} = \underline{\hspace{1cm}}\%$ (mixed number)

HS: ConvDistVolu

4 ft x 6 ft x 9 ft = ___ cubic yards

Word Search Contest

Circle each of the mathematical words in the word search below. Once you are done, the **unused letters** will spell out a secret word.

Send the secret word back in an email to numdojo@gmail.com, and you will receive a **free prize!**

S	S	P	H	E	R	E	I	P	I
A	Q	S	A	C	R	N	A	N	M
N	U	U	L	N	V	L	T	N	A
O	O	M	A	E	G	E	A	O	G
I	T	E	R	R	G	L	R	I	I
T	I	S	E	E	E	L	E	T	N
C	E	A	R	F	O	R	A	U	A
A	N	B	G	F	R	A	O	L	R
R	T	E	M	I	R	P	M	O	Y
F	T	C	U	D	O	R	P	S	T

Word List: Angle, Area, Base, Difference, Fraction, Imaginary, Integer, Inverse, Prime, Product, Quotient, Solution, Sphere, Square Root, Sum

Try out the Weekly Number Sense Challenge!

Can't wait to start competing again? Then don't wait!

Here's how it works:

1. **Download and take** the test
2. **Scan** the completed test **and send** it back
3. **We'll grade** your test and **post the results** & rankings.

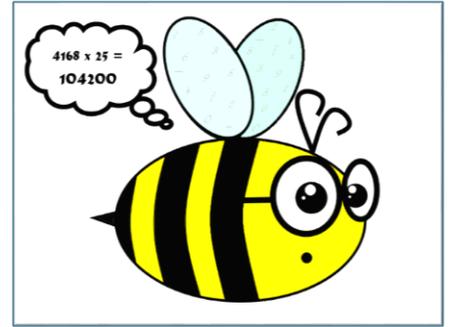
Available for *Elementary, Middle School, and High School!*

See <http://www.numberdojo.com/nschallenge.html>.

New for EL in 2018

Out of the 8 Elementary Number Sense tests last year, the following 12 concepts were new (or returned after a hiatus):

- ★ AddFracDiff
- ★ AddSquareDoub
- ★ EstSquareRoot
- ★ FOIL2by2Digit
- ★ Mult%
- ★ Mult25var
- ★ MultDistribPr
- ★ MultDistrib2
- ★ SquareRoot2
- ★ SquareRootMix
- ★ SubFracDiff
- ★ SubRev2Digit



Texas State Mathing Bee

Congratulations to **Grant Beakley**, a 7th Grader from Pine Tree Junior High. He won the 1st Annual Texas Mathing Bee on April 28th.

All the Grade-Level Winners:

- ★ 5th: Parth Mittal
- ★ 6th: Laurie Wang
- ★ 7th: Grant Beakley
- ★ 8th: Spencer Spendlove

Register to hold your own Mathing Bee at your school. Your grade-level winners will advance to the next level of competition, with a chance to move on to State!

The **Texas State Mathing Bee** will be held in **early 2019**.

More details can be found [here](#).

Also check out our:

[Curriculum](#), [Practice Tests](#), [Indexes](#), and [Flashcards!](#)