



Reading and comparing decimals

Longer is not bigger

- Today: which is more, 0.45 or 0.7?

Most classes say 0.45

- 45 is bigger than 7.
- And it has more digits.

Both true. And 0.7 is the bigger number.

The digits are not a number

- The 4 means 4 TENTHS.
- The 7 means 7 TENTHS.

7 tenths beats 4 tenths. Done at the tenths.

Or give them the same pieces

- $0.45 = 450$ thousandths.
- $0.7 = 700$ thousandths.

$700 > 450$. Same move as common denominators.

The rule that always works

- Compare the LEFTMOST place where they differ.
- 0.3 against 0.28: tenths are 3 and 2.

0.3 wins. The 8 never matters.

Zeros after and zeros before

- $0.5 = 0.50 = 0.500$. The same amount.
- 0.05 is a TENTH of 0.5 .

A zero after changes nothing. Before, everything.

Saying it out loud

- 206.7 is “two hundred and six point seven”.
- 0.406 is “four hundred and six thousandths”.

“And” marks the point. Do not spend it early.

Your turn

- Order 0.4, 0.125, 0.35, 0.09 smallest first.
- Then: is 0.5 the same as 0.50? Is it the same as 0.05?

Name the place, then compare.