Simplify.

$$\frac{8 - 3}{4}$$
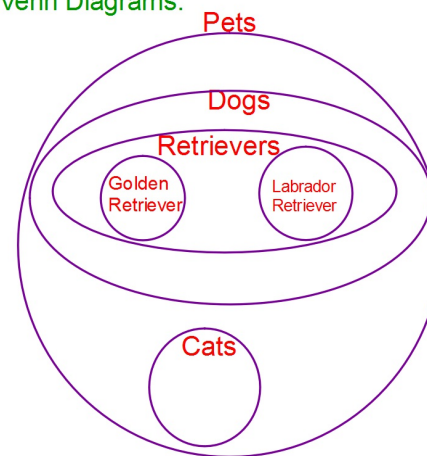
Why can't you divide just the 8 by 4?

Because this expression really means:

(8 - 3)÷4

And Order of Operations tells you to subtract first and divide second.

Venn Diagrams.

Pets

Dogs

Retrievers

Golden Retriever

Labrador Retriever

Cats

0,1,2,3...

Real Numbers

Real Numbers

Rational

2.5

Integer

...-3,-2,-1,0,1,2,3...

Whole

0,1,2,3...

Natural

1,2,3...

Irrational

π

$\sqrt{7}$

1

$\sqrt{9}$

-1

$.33\overline{3}$

½