

Comparing Decimals

In Focus

0.4

0.12



12 is greater than 4.
So, $0.12 > 0.4$.

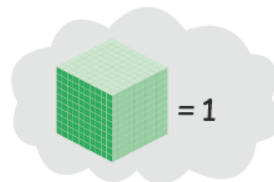
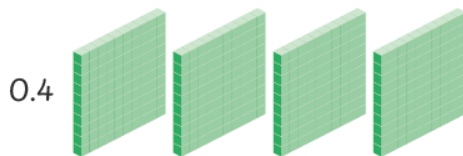
I disagree.



Who is correct?

Let's Learn

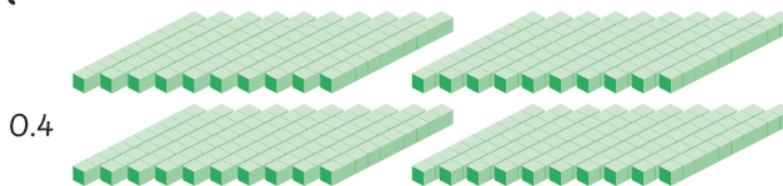
- 1 Write 0.4 as a fraction.



0.4 is 4 tenths.

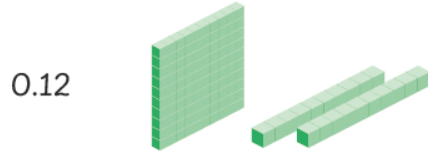
0.4 is also 40 hundredths.

$$0.4 = \frac{4}{10}$$



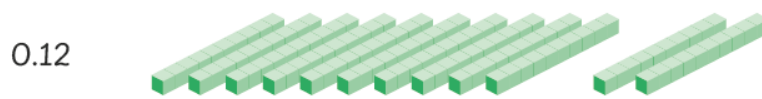
$$0.4 = \frac{40}{100}$$

2 Write 0.12 as a fraction.



0.12 is 1 tenth and 2 hundredths.

0.12 is also 12 hundredths.



$$\frac{12}{100}$$

3 Compare 0.4 and 0.12.

$$0.4 = \frac{40}{100} \quad 40 \text{ hundredths}$$

$$0.12 = \frac{12}{100} \quad 12 \text{ hundredths}$$

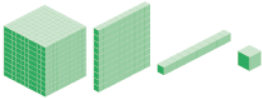


0.4 is greater than 0.12.

0.12 is less than 0.4.

Guided Practice

1

Use  to help you compare the numbers in each pair.

Which number is smaller?

- (a) 1.9 or 2.1
- (b) 0.6 or 0.4
- (c) 0.45 or 0.54
- (d) 0.2 or 0.19
- (e) 0.19 or 0.1

Is it true that the number with fewer digits is the smaller number?



2

Compare the numbers. Use the symbols $>$ or $<$.

- (a) 2 0.97
- (b) 0.79 0.8
- (c) 0.23 0.2

0.8 is hundredths.

0.2 is hundredths.



Name: _____ Class: _____ Date: _____

Worksheet 4

Comparing Decimals

1 Compare each pair of numbers. Which is the smaller number?

(a) 1.4 or 2.03

is less than .

(b) 0.32 or 0.032

is less than .

(c) 0.2 or 0.19

is less than .

(d) 0.69 or 0.96

is less than .

2 Compare each pair of numbers. Which is the larger number?

(a) 0.9 or 0.899

is greater than .

(b) 1.206 or 1.260

is greater than .

(c) 5.35 or 5.53

is greater than .

3 Compare the numbers. Use the symbols $>$ or $<$.

(a) 0.1 0.01

(b) 0.45 1.3

(c) 1.67 1.617

(d) 2.84 2.48