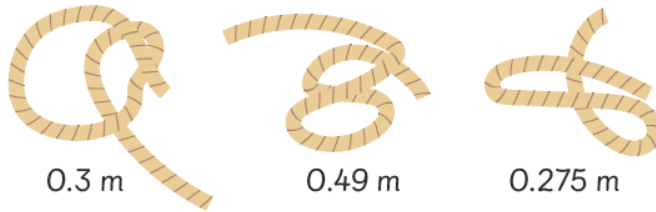


# Comparing Decimals

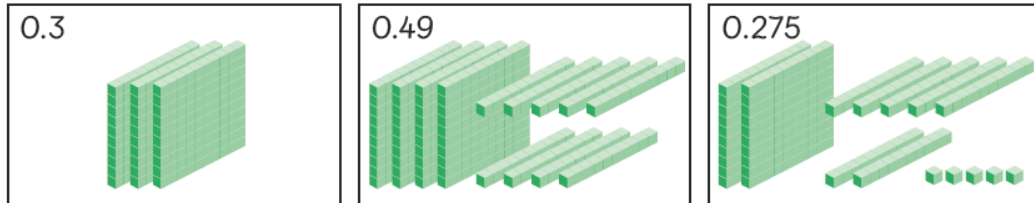
## In Focus

Which rope is the longest?



## Let's Learn

1  's method



$$0.275 < 0.3 < 0.49$$

The longest piece is 0.49 m.

2  's method

$$0.3 = \frac{3}{10} = \frac{30}{100} = \frac{300}{1000}$$

$$0.49 = \frac{49}{100} = \frac{490}{1000}$$

$$0.275 = \frac{275}{1000}$$

300 thousandths

490 thousandths

275 thousandths



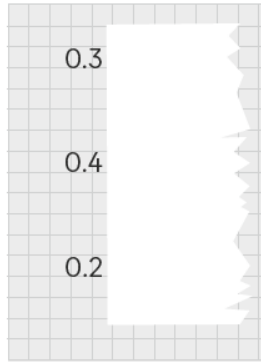
275 thousandths	<	300 thousandths	<	490 thousandths
0.275	<	0.3	<	0.49

The longest piece is 0.49 m.

3




's method




It does not matter what comes after the digit 2.

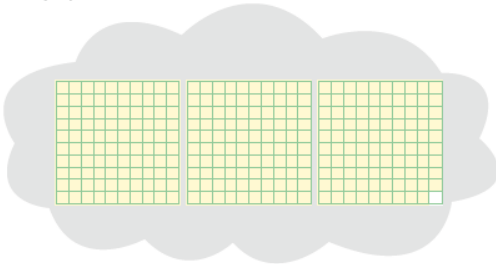


0.2  is always less than 0.3.

It does not matter what comes after the digit 3.



0.3  is always less than 0.4.



Even 0.299 is less than 0.3.

### Guided Practice

Arrange the numbers from the smallest to the greatest.

- (a) 0.921, 0.129, 0.219
- (b) 0.6, 0.16, 0.716

Use base-ten blocks to help you if necessary.



Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Worksheet 5

### Comparing Decimals

1 Fill in the blanks and compare the numbers.

(a)  $0.6 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$0.23 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$0.136 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$\boxed{\phantom{000}}$  thousandths <  $\boxed{\phantom{000}}$  thousandths <  $\boxed{\phantom{000}}$  thousandths

(b)  $0.674 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$0.03 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$0.5 = \frac{\boxed{\phantom{000}}}{1000} = \boxed{\phantom{000}}$  thousandths

$\boxed{\phantom{000}}$  thousandths <  $\boxed{\phantom{000}}$  thousandths <  $\boxed{\phantom{000}}$  thousandths

**2** Arrange the numbers from the smallest to the greatest.

(a) 0.43 , 0.5 , 0.358

(b) 0.5 , 0.25 , 0.052

(c) 0.867 , 0.687 , 0.768

**3** Arrange the numbers from the greatest to the smallest.

(a) 0.3 , 0.022 , 0.11

(b) 0.51 , 0.3 , 1.001

(c) 4.046 , 4.640 , 4.46