

## Worksheet 5

### Comparing Decimals

1 Fill in the blanks and compare the numbers.

$$(a) \quad 0.6 = \frac{600}{1000} = 600 \text{ thousandths}$$

$$0.23 = \frac{230}{1000} = 230 \text{ thousandths}$$

$$0.136 = \frac{136}{1000} = 136 \text{ thousandths}$$

$$136 \text{ thousandths} < 230 \text{ thousandths} < 600 \text{ thousandths}$$

$$(b) \quad 0.674 = \frac{674}{1000} = 674 \text{ thousandths}$$

$$0.03 = \frac{30}{1000} = 30 \text{ thousandths}$$

$$0.5 = \frac{500}{1000} = 500 \text{ thousandths}$$

$$30 \text{ thousandths} < 500 \text{ thousandths} < 674 \text{ thousandths}$$

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

(a) 0.43, 0.5, 0.358

$$0.358 < 0.43 < 0.5$$

(b) 0.5, 0.25, 0.052

$$0.052 < 0.25 < 0.5$$

(c) 0.867, 0.687, 0.768

$$0.687 < 0.768 < 0.867$$

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

(a) 0.3, 0.022, 0.11

$$0.3 > 0.11 > 0.022$$

(b) 0.51, 0.3, 1.001

$$1.001 > 0.51 > 0.3$$

(c) 4.046, 4.640, 4.46

$$4.640 > 4.46 > 4.046$$

0.394

= 3 tenths, 9 hundredths and 4 thousandths

$$= \frac{3}{10} + \frac{9}{100} + \frac{4}{1000}$$

$$= 0.3 + 0.09 + 0.004$$

Write these numbers in three different ways:

0.472

0.529

0.307

Ron has 8 counters. He makes numbers using the place value chart.

At least 3 columns have counters in.

What is the largest and the smallest number he can make with 8 counters?

1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Can you record the numbers in different ways?



In this problem symbols have been used to represent two different numbers. Write down the value of each, as a mixed number and as a decimal.

$$\text{Blue circle} = 1 \quad \text{Orange star} = \frac{1}{10} \quad \text{Green triangle} = \frac{1}{100} \quad \text{Yellow pentagon} = \frac{1}{1000}$$

0.394

= 3 tenths, 9 hundredths and 4 thousandths

$$= \frac{3}{10} + \frac{9}{100} + \frac{4}{1000}$$

$$= 0.3 + 0.09 + 0.004$$

Write these numbers in three different ways:

0.472

0.529

0.307

0.472 = 4 tenths, seven hundredths and 2 thousandths

$$= \frac{4}{10} + \frac{7}{100} + \frac{2}{1000}$$

$$= 0.4 + 0.07 + 0.002$$

0.529 = 5 tenths, two hundredths and 9 thousandths

$$= \frac{5}{10} + \frac{2}{100} + \frac{9}{1000}$$

$$= 0.5 + 0.02 + 0.009$$

0.307 = 3 tenths and 7 thousandths

$$= \frac{3}{10} + \frac{7}{1000}$$

$$= 0.3 + 0.007$$

Ron has 8 counters. He makes numbers

Smallest: 0.116

using the place value chart.

Largest: 6.11

At least 3 columns have counters in.

What is the largest and the smallest number he can make with 8 counters?

1	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Can you record the numbers in different ways?

●	▲	▲	▲	★	★	★	★
▲	▲	●	▲	●	★	★	★

1.431

2.322

In this problem symbols have been used to represent two different numbers. Write down the value of each, as a mixed number and as a decimal.

● = 1   ★ =  $\frac{1}{10}$    ▲ =  $\frac{1}{100}$    ▲ =  $\frac{1}{1000}$