Worksheet 4

Comparing Decimals

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

(a) 1.4 or 2.03

[1.4] is less than [2.03].

(b) 0.32 or 0.032

[0.032] is less than [0.32].

(c) 0.2 or 0.19

[0.19] is less than [0.2].

(d) 0.69 or 0.96

[0.69] is less than [0.96].

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

(a) 0.9 or 0.899

[0.9] is greater than [0.899].

(b) 1.206 or 1.260

[1.260] is greater than [1.206].

(c) 5.35 or 5.53

[5.53] is greater than [5.35].

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

CHALLENGE

A number between 11 and 20 with 2 decimal places rounds to the same number when rounded to one decimal place and when rounded to the nearest whole number?

What could this be?
Is there more than one option?
Explain why.

Alex says,

3.105 is greater than 3.2 because 105 is greater than 2

Do you agree?
Explain your answer.

Answers below:

A number between 11 and 20 with 2 decimal places rounds to the same number when rounded to one decimal place and when rounded to the nearest whole number?

What could this be?
Is there more than one option?
Explain why.

The whole number can range from 11 to 19 and the decimal places can range from ___.95 to ___.99

Can children explain why this works?

Alex says,

3.105 is greater than 3.2 because 105 is greater than 2

Do you agree?
Explain your answer.

Alex is wrong because 2 tenths is larger than 105 thousandths.