GCSE HIGHER · REVISION MAT 3

Ordering numbers

1 Write in order, smallest first.

$-1.5, -0.5, -2, 1$

2 Write $<$ or $>$ in the box.

$\frac{2}{3} \square 0.6$

3 Ben says $-5 > -1$ because $5 > 1$.

Explain why he is wrong.

4 Write in order, smallest first.

$0.45, \frac{4}{9}, 44.5\%, \frac{11}{25}$

5 Show that $-\frac{1}{3} < -0.3$.

6 Write down a decimal between $0.\dot{3}$ and 0.34.

7 Write in order, smallest first.

$5^0, 5^{-1}, 0.5^{-1}, 0.5^2$

8 $0 < x < 1$

Write in order, smallest first.

$x, x^2, \sqrt{x}, \frac{1}{x}$

Mr&Mrs MATHS

ANSWERS · REVISION MAT 3

Ordering numbers

1 −2, −1.5, −0.5, 1

2 $\frac{2}{3} > 0.6$

3 −5 is further below zero, so −5 < −1.

4 0.45, 0.444, 0.445, 0.44

$\frac{11}{25}$, $\frac{4}{9}$, 44.5%, 0.45

5 $-\frac{1}{3} = -0.333...$

−0.333 is further below zero than −0.3.

6 $0.\dot{3} = 0.3333...$

e.g. 0.335

7 1, 0.2, 2, 0.25

5^{-1}, 0.5^2, 5^0, 0.5^{-1}

8 Try $x = 0.25$: 0.25, 0.0625, 0.5, 4

x^2, x, $\sqrt{x}$, $\frac{1}{x}$

Mr&Mrs MATHS