L.O. To relate fractions to decimal equivalents.

Please note: 'a decimal fraction' is another name used for 'a decimal'.

Please READ below before tackling the task!

Remember the decimal point follows the units column and comes before the tenths column.

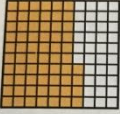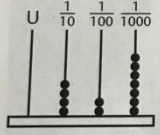Count the beads in each place value column.......

0.427

Think about the value of each of these decimal place value columns.

There are 64 squares shaded in out of 100, so the fraction shaded would be written as 64/100. The equivalent decimal fraction would be

64 divided by 100 = 0.64

DECIMAL FRACTIONS

TARGET
To recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.

Examples

$$\frac{64}{100} = 0.64$$

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

$$\frac{427}{1000} = 0.427$$

Each digit in a number is 10 times greater than the digit to the right. This applies to decimal fractions as well as to whole numbers.

T	U	·	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
30 =	3	0 ·	0		
3 =		3 ·	0		
$\frac{3}{10}$ =		0 ·	3		
$\frac{3}{100}$ =		0 ·	0	3	
$\frac{3}{1000}$ =		0 ·	0	0	3

I've tried to provide the first few answers to each part so as you are clear on how to present your answers. Please do as much of each section as you can over the week – you don't have to complete all questions.
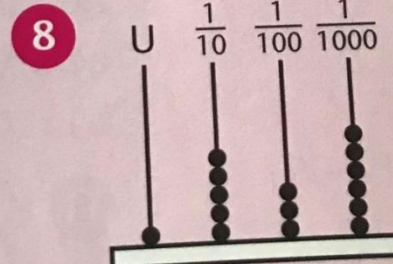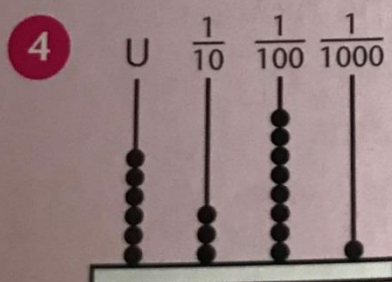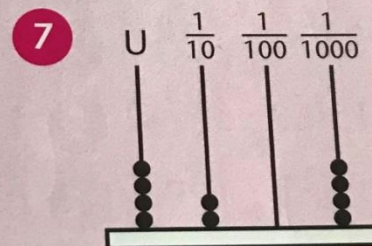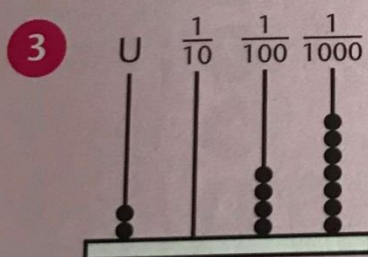
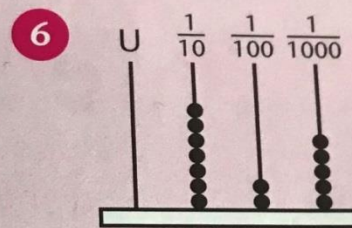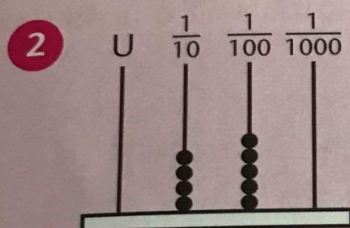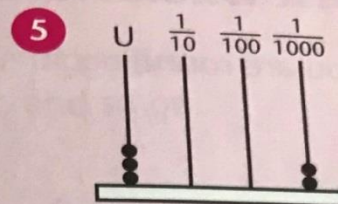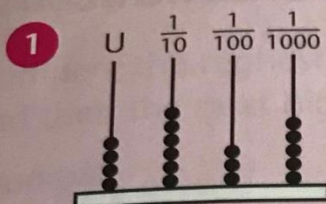Please see the attached answers to then self-mark.

Section B

Think about the layout of a decimal fraction (the same word for a decimal number) and count those beads carefully!

1.   4.635
2.   0.450

B

Write the decimal fraction shown on each abacus.

Again the decimal place value chart may help you here to remind you of the place value columns.

9. 6 hundredths

10. 3 tenths

Give the value of the underlined figure in each of these numbers.

9. 8·8<u>6</u>

10. 4·<u>3</u>91

11. 0·24<u>9</u>

12. 1<u>3</u>·57

13. 2·40<u>7</u>

14. 67·<u>6</u>

15. 0·1<u>5</u>

16. 5·<u>9</u>28

17. <u>3</u>0·71

18. 9·28<u>4</u>

19. 1·6<u>3</u>

20. 7·05<u>6</u>

Write each number shown by the arrows as a decimal fraction.

21.

M   N   O   P

0·68 ↓   ↓   ↓   ↓ 0·69

Well done Year 6s! However many questions you've managed to tackle – you have been amazing to try your best without being in the classroom.

I would love to hear how you have got on with this task – please scan and send your work in to our Year 6 email address or simply send us a message. Year6@Nettleham-Junior.Lincs.sch.uk

Section B

1.   4.635
2.   0.450
3.   2.047
4.   6.381
5.   3.002
6.   0.725
7.   4.204
8.   1.536
9.   6 hundredths
10.   3 tenths
11.   9 thousandths
12.   3 ones
13.   7 thousandths
14.   6 tenths
15.   5 hundredths
16.   9 tenths
17.   3 tens
18.   4 thousandths
19.   3 hundredths
20.   6 thousandths
21.   M = 0.681
            N = 0.684
            O = 0.686
            P = 0.689