Maths Groups

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GROUP 5
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Task 1

To convert from a decimal to a percentage, you have to times the decimal by 100. This means you have to move all of the digits two places to the left Can you convert the following decimals into percentages?

H	T	U	.	T_{th}	H_{th}	Th_{th}

0.2 =

0.6 =

0.05 =

0.13 =

0.72 =

0.68 =

1.23 =

To convert from a percentage to a decimal, you have to divide the percentage by 100. This means moving all the digits two places to the right. Can you convert the following percentages to decimals?

H	T	U	.	T_{th}	H_{th}	Th_{th}

10% =

20% =

15% =

18% =

36% =

72% =

6% =

2% =

Task 2

To convert from a fraction to a decimal, you have to divide the numerator by the denominator. Can you convert the following fractions to decimals?

$\dfrac{3}{5}$ =

$\dfrac{3}{4}$ =

$\dfrac{1}{5}$ =

$\dfrac{5}{8}$ =

$\dfrac{4}{3}$ =

To convert from a decimal to a fraction, you have to read what place value column the last digit is in. That column then becomes your denominator. The digits in the decimal then become the numerator. Can you convert the following decimals to fractions?

0.9   =

0.6   =

0.4   =

0.43 =

0.12 =

0.03 =

0.038 =

1.53 =

Task 3

Create your own conversion numberline! Start with 0 on the left, and finishing with 1 on the right.

You will need a ruler and a lead pencil to draw your numberline.

Write the following decimals on your number line. You must also convert each number into its fraction and percentage forms and write them above the decimal.

The decimals you have to include on your numberline are:

0.2

0.25

0.3

0.4

0.5

0.6

0.8

0.95

Task 4

Create your own conversion number line! Start with a 0 on the left, and a 2 on the right. The middle number should be a 1.

You will need a ruler and a lead pencil to draw your numberline.

Your job is to plot 10 different points of your choosing on the numberline. 5 of the points must be in between 0 and 1. The other 5 must be between 1 and 2. For each of these points, you must write the decimal, fraction and percentage.

For Example:

$$0 = \frac{0}{1} = 0\%$$

$$1 = \frac{1}{1} = 100\%$$

$$2 = \frac{2}{1} = 200\%$$

Task 5

Solve the following questions using any method you want. You may find it easier to convert these numbers to a fraction, decimal or a percentage before you attempt to solve them. If you are unsure about how to solve the questions, use an ipad to look up the following:

Multiply by a fraction

Discount a number by a percent

Multiply fractions together

Multiply decimals together

For the last question, remember the order of operations! (BIMDAS)

1. **20 x $\frac{3}{5}$**

2. **0.6 x 7**

3. **32% of 621.6**

4. **Discount 71.5 by 30%**

5. **$\frac{6}{8}$ x $\frac{3}{2}$**

6. **0.4 x 0.32**

7. **$\frac{7}{20}$ x 0.4**

8. **$\frac{3}{12}$ x 108**

9. **15% *of half of* 32 x 0.75**

10. **76 + $\frac{60}{80}$ x (24.6 x 5) - 94**