| a) Write 0. 5 as a fraction in its simplest form. | | b) Write 0. 54 as a fraction in its simplest form. | |
|------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Let the recurring decimal be equal to <i>x</i> | $x = 0.\dot{5} = 0.55555555555555555555555555555555555$ | Let the recurring decimal be equal to <i>x</i> | $x = 0.\dot{5}\dot{4} = 0.5454545454$ |
| Multiply <i>x</i> to make an equal decimal part | $10x = 5.\dot{5} = 5.555555555555555555555555555555555$ | Multiply <i>x</i> to make an equal decimal part | $10x = 5.\dot{4}\dot{5} = 5.454545454545 \dots$ $100x = 54.\dot{5}\dot{4} = 54.545454545454 \dots$ |
| Subtract the smaller value from the larger | $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ | Subtract the smaller value from the larger | $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ |
| Rearrange to find the value of <i>x</i> | $x = \frac{5}{9}$ | Rearrange to find the value of <i>x</i> | |
| c) Write 0.54 as a fraction in its simplest form. | | d) Write 0. 42 as a fraction in i | its simplest form. |
| Let the recurring decimal be equal to <i>x</i> | $x = 0.5\dot{4} = 0.5444444444 \dots$ | | |
| Multiply <i>x</i> to make an equal decimal part | $10x = 5.\dot{4} = 5.4444444444 \dots$ 100x = = | | |
| Subtract the smaller value from the larger | | | |
| Rearrange to find the value of <i>x</i> | | | |
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