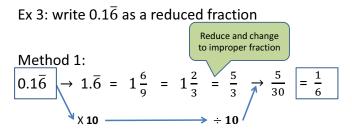
Frac Case 1: From Fr – Use a calcula – The <u>period</u> o	ting a Rational number as ctions or Decimals raction to Decimal ator of a rational number is the infinitely ecimal(s)we put a bar over it. the period is the period is the period is	Case 2: From Dec Ex 2: Write the fo as reduced fraction a) 0.3 = b) 1.22 = c) 0.225 =	llowing terminating decimals	
Trick: $\frac{x}{9} = 0.\overline{x}$ and $\frac{xy}{99} = 0.\overline{xy}$ S 3 Write the following repeating decimals as could fractions. $a) 0.\overline{3} =$ $a) 2.\overline{05} =$ $b) 1.\overline{23} =$ $a) 2.\overline{025} =$ $c) 0.\overline{225} =$ $f) 3.\overline{012} =$			<section-header><text><image/><image/></text></section-header>	

If period is not right after decimal point!!



We multiply by 10 to get the period alone after the decimal point. Since that changes the value we have to undo it later by dividing by 10 again.

Dividing by 10 means just add the zero in the denominator.

Method 2: to write $0.1\overline{6}$ as a reduced fraction

Explanation:

- 1) Make an equation –write the period twice
- Multiply both sides by a power of 10 to move decimal point to after 1 period
- 3) and again to before one period.
- 4) Subtract the 2 equations
- 5) Solve for x ; and

reduce the fraction if possible

Steps:			
1)	Let $x = 0.16\overline{6}$		
2)	$100 \text{ x} = 16.\overline{6}$		
3)	— 10 x = 1. 6		
4)	90 x = 15.0		
5)	$x = \frac{15}{90}$		
	$=\frac{1}{6}$		
	$=\frac{1}{6}$		

Ex 4: write $1.2\overline{36}$ as a reduced fraction Method 1:

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Method 2:

Practice: page 13 # 5(d), 6(b,c), 8

