Recurring Decimals GREEN

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| **Question 1**Express $0.\dot{5}$ as a fraction in its simplest form. | **Question 2**Express $0.\dot{8}\dot{4}$ as a fraction in its simplest form. | **Question 3**Express $0.\dot{1}6\dot{9}$ as a fraction in its simplest form. |
| **Question 4**Express $0.3\dot{8}\dot{1}$ as a fraction in its simplest form. | **Question 5**Express $0.72\dot{4}$ as a fraction in its simplest form. | **Question 6**Express $0.02\dot{4}\dot{5}$ as a fraction in its simplest form. |

Recurring Decimals AMBER

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| **Step-by-step guide:**1) Set the decimal equal to $x$.2) If one digit recurs, $×10$; if two digits recur, $×100$; if three digits recur, $×1000$; etc.3) Subtract the first equation from the second one.4) Solve the equation.5) Fully simplify the fraction. | **Question 1**Express $0.\dot{5}$ as a fraction in its simplest form. | **Question 2**Express $0.\dot{8}\dot{4}$ as a fraction in its simplest form. |
| **Question 3**Express $0.\dot{1}6\dot{9}$ as a fraction in its simplest form. | **Question 4**Express $0.3\dot{8}\dot{1}$ as a fraction in its simplest form. | **Question 5**Express $0.72\dot{4}$ as a fraction in its simplest form. |

Recurring Decimals RED

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| **Step-by-step guide:**1) Set the decimal equal to $x$.2) If one digit recurs, $×10$; if two digits recur, $×100$; if three digits recur, $×1000$; etc.3) Subtract the first equation from the second one.4) Solve the equation.5) Fully simplify the fraction. | **Question 1**Express $0.\dot{5}$ as a fraction in its simplest form. $10x=5.555 555…$ $-$ $x=0.555 555…$ | **Question 2**Express $0.\dot{8}\dot{4}$ as a fraction in its simplest form. $x= 0.848 484…$ $100x=$ |
| **Question 3**Express $0.\dot{1}6\dot{9}$ as a fraction in its simplest form. | **Question 4**Express $0.3\dot{8}\dot{1}$ as a fraction in its simplest form. | **Question 5**Express $0.72\dot{4}$ as a fraction in its simplest form. |