Changing Fractions Repeating or Terminating Decimals

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| Given the following fractions, change them to either terminating or repeating decimals. DO NOT USE A CALCULATOR. Then say whether they are terminating or repeating and justify your answer. |
| 1) $\frac{2}{3}$ | 2) $\frac{1}{5}$ |
| 3) $\frac{4}{9}$ | 4) $3\frac{1}{3}$ |

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| Change the following decimals to fractions written in simplest form. DO NOT USE A CALCULATOR. |
| 5) 0.36 | 6) 0.17 |
| 7) 0.24 | 8) 0.8 |

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| Compare the following by first converting both to fractions, then both to decimals. Use signs <, >, and = to compare. |
| 9) $\frac{7}{8}$ and 0.79 | 10) $\frac{2}{3}$ and 0.6 |