Terminating and Recurring Decimals

By writing the denominator as a product of its prime factors, decide if each of these fractions would convert to a terminating or recurring decimal.

(a) $\frac{1}{8}$ (b) $\frac{1}{25}$ (c) $\frac{1}{15}$

(d) $\frac{1}{14}$ (e) $\frac{1}{50}$ (f) $\frac{1}{16}$

(g) $\frac{1}{30}$ (h) $\frac{1}{12}$ (i) $\frac{1}{40}$

Write out the following recurring decimals to show the first 10 decimal places.

(a) $0.\dot{4}$ (b) $0.\dot{7}$

(c) $0.\dot{1}\dot{4}$ (d) $0.\dot{2}\dot{3}$

(e) $0.\dot{1}2\dot{3}$ (f) $0.\dot{4}6\dot{1}$

(g) $0.0\dot{5}$ (h) $0.1\dot{7}\dot{2}$

Use your calculator to convert the following fractions into terminating or recurring decimals.

(a) $\frac{4}{9}$ (b) $\frac{2}{5}$ (c) $\frac{3}{10}$

(d) $\frac{7}{11}$ (e) $\frac{5}{16}$ (f) $\frac{1}{8}$

(g) $\frac{4}{7}$ (h) $\frac{29}{100}$ (i) $\frac{3}{35}$

Use your calculator to convert the following fractions into recurring decimals.

(a) $\frac{1}{9}$ (b) $\frac{2}{9}$ (c) $\frac{3}{9}$

Can you spot a pattern?

Use your calculator to convert the following fractions into recurring decimals.

(a) $\frac{12}{99}$ (b) $\frac{13}{99}$ (c) $\frac{14}{99}$

Can you spot a pattern?

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