Corbett maths

Examples

Workout

Fractions to Decimals
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Question 1: Convert the following fractions to decimals.

(a) $\dfrac{1}{2}$ (b) $\dfrac{1}{4}$ (c) $\dfrac{3}{4}$ (d) $\dfrac{1}{5}$ (e) $\dfrac{3}{5}$ (f) $\dfrac{4}{5}$

(g) $\dfrac{1}{10}$ (h) $\dfrac{3}{10}$ (i) $\dfrac{7}{10}$ (j) $\dfrac{9}{10}$ (k) $\dfrac{67}{100}$ (l) $\dfrac{99}{100}$

Question 2: Convert the following fractions to decimals.

(a) $\dfrac{1}{8}$ (b) $\dfrac{7}{20}$ (c) $\dfrac{5}{8}$ (d) $\dfrac{3}{20}$ (e) $\dfrac{3}{25}$ (f) $\dfrac{7}{8}$

(g) $\dfrac{19}{20}$ (h) $\dfrac{43}{50}$ (i) $\dfrac{1}{3}$ (j) $\dfrac{9}{200}$ (k) $\dfrac{9}{40}$ (l) $\dfrac{13}{20}$

(m) $\dfrac{2}{3}$ (n) $\dfrac{123}{200}$ (o) $\dfrac{21}{40}$ (p) $\dfrac{401}{500}$ (q) $\dfrac{161}{200}$ (r) $\dfrac{3}{8}$

(s) $\dfrac{1}{9}$ (t) $\dfrac{19}{50}$ (u) $\dfrac{51}{80}$ (v) $\dfrac{11}{80}$ (w) $\dfrac{5}{9}$

Question 3: Convert the following fractions to decimals.

(a) $\dfrac{3}{2}$ (b) $\dfrac{5}{4}$ (c) $\dfrac{11}{2}$ (d) $\dfrac{9}{5}$ (e) $\dfrac{53}{20}$ (f) $\dfrac{177}{100}$

Apply

Question 1: Match up any fraction and decimal that are equivalent.
Not all the fractions and decimals will match up.

$\frac{1}{2}$		0.4
$\frac{3}{4}$		0.5
$\frac{2}{5}$		0.25
$\frac{7}{10}$		0.34
$\frac{1}{4}$		0.7

Question 2: Which is larger, 0.65 or $\dfrac{3}{5}$?

Explain your answer.

Question 3: Arrange in order, from smallest to largest.

$\boxed{\dfrac{7}{10}}$ $\boxed{0.9}$ $\boxed{\dfrac{4}{5}}$ $\boxed{0.77}$ $\boxed{\dfrac{3}{4}}$

Question 4: In 2015, $\dfrac{13}{20}$ of adults in the UK owned a smart phone.

Write $\dfrac{13}{20}$ as a decimal.

Question 5: Leon has completed his homework.
Can you spot any mistakes?

Write $\dfrac{4}{5}$ as a decimal.

$$\begin{array}{r} 1 . 2\ 5 \\ 4\overline{\smash)5 .{}^1 0 {}^2 0} \end{array}$$

Answer: 1.25

Write $\dfrac{3}{20}$ as a decimal.

$$\begin{array}{r} 0 . 1\ 0\ 5 \\ 2\,0\overline{\smash)3 .{}^3 0 {}^1 0 {}^{10} 0} \end{array}$$

Answer: 0.105

Answers

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