Changing Fractions to Decimals

1. Write equivalent fractions over a denominator of 10, 100 or 1000; then write the appropriate decimal.
(Score 1 point for each correct fraction; 1 point for each correct decimal; 20 point total for question 1)

Example: $\frac{3}{5} = \frac{6}{10} = 0.6$ $\frac{5}{8} = \frac{625}{1000} = 0.625$

a) $\frac{4}{5}$ = ____ = _____ b) $\frac{3}{8}$ = ____ = _____

c) $\frac{3}{20}$ = ____ = _____ d) $\frac{1}{25}$ = = _____

e) $\frac{101}{500}$ = = _____ f) $\frac{23}{50}$ = = _____

g) $\frac{1}{2}$ = = _____ h) $\frac{13}{250}$ = = _____

i) $\frac{1}{20}$ = = _____ j) $\frac{3}{50}$ = = _____

2. By using long division OR a calculator, find the decimal equivalent for each of the following fractions.
If using a calculator, round your answer to three decimal places.
If using long division, show all working and find your answer to the third decimal place and **round** it to two decimal places.
(Score 1 point for each answer; deduct half if not rounded correctly; 5 point total for question 2)

a) $\frac{5}{9}$ Answer: _____ b) $\frac{4}{7}$ Answer: _____

c) $\frac{2}{15}$ Answer: _____ d) $\frac{6}{11}$ Answer: _____

e) $\frac{1}{12}$ Answer: _____

Q1 _____ points

Q2 _____ points

Total _____ /25 = _____%

Changing Fractions to Decimals – Answers

Do not give this to the student.

1. *(Score 1 point for each correct fraction; 1 point for each correct decimal; 20 point total for question 1)*

a) $\frac{4}{5} = \frac{8}{10} =$ 0.8 b) $\frac{3}{8} = \frac{375}{1000} =$ 0.375

c) $\frac{3}{20} = \frac{15}{100} =$ 0.15 d) $\frac{1}{25} = \frac{4}{100} =$ 0.04

e) $\frac{101}{500} = \frac{202}{1000} =$ 0.202 f) $\frac{23}{50} = \frac{46}{100} =$ 0.46

g) $\frac{1}{2} = \frac{5}{10} =$ 0.5 h) $\frac{13}{250} = \frac{52}{1000} =$ 0.052

i) $\frac{1}{20} = \frac{5}{100} =$ 0.05 j) $\frac{3}{50} = \frac{6}{100} =$ 0.06

2. *(Score 1 point for each answer; deduct half if not rounded correctly; 5 point total for question 2)*

a) $\frac{5}{9}$ Answer: _____

Calculator: 0.55555 rounded to: 0.556

Long Division: 0.555 rounded to: 0.56

$9\overline{)5.000}$

4 5↓

50

45↓

50

b) $\frac{4}{7}$ Answer: _____

Calculator: 0.57142857 rounded to: 0.571

Long Division: 0.571 rounded to: 0.57

$7\overline{)4.000}$

35↓

50

49↓

10

c) $\frac{2}{15}$ Answer: _____

Calculator: 0.13333 rounded to: 0.133

Long Division: 0.133 rounded to: 0.13

$15\overline{)2.000}$

1 5↓

50

45↓

50

d) $\frac{6}{11}$ Answer: _____

Calculator: 0.5454545 rounded to: 0.545

Long Division: 0.545 rounded to: 0.54

$11\overline{)6.000}$

5 5↓

50

44↓

60

e) $\frac{1}{12}$ Answer: _____

Calculator: 0.0833333 rounded to: 0.083

Long Division 0.083 rounded to: 0.08

$12\overline{)1.0000}$

96↓

40

36

4