

NAME: _____

3.1 Fractions and Decimals Assignment

1. Write each of the following repeating decimals using bar notation (1 mark each)

a) $0.33333333 \dots =$ _____

b) $0.675675675 \dots =$ _____

c) $0.421542154215 \dots =$ _____

d) $0.345454545 \dots =$ _____

2. Write the following fractions as decimals. State whether the decimal is terminating or repeating (2 marks each)

$\frac{3}{5}$	$\frac{4}{9}$
$\frac{1}{15}$	$\frac{3}{11}$
$\frac{3}{7}$	$\frac{10}{12}$
$\frac{8}{32}$	$\frac{2}{11}$

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3. Write the following decimals as fractions. Report your answer in lowest terms. (1 mark each)

0.8	0.45
0.127	$0.\overline{6}$

4. Write the following improper fractions as mixed numbers in lowest terms (1 mark each = 9 marks)

$\frac{13}{5}$	$\frac{18}{15}$	$\frac{28}{12}$
$\frac{51}{32}$	$\frac{27}{7}$	$\frac{18}{9}$
$\frac{13}{4}$	$\frac{100}{94}$	$\frac{23}{8}$

5. Write the following mixed numbers as improper fractions (1 mark each = 9 marks)

$3\frac{2}{5}$	$4\frac{1}{15}$	$5\frac{2}{12}$
$6\frac{23}{32}$	$2\frac{6}{7}$	$1\frac{2}{9}$
$9\frac{3}{4}$	$1\frac{1}{94}$	$2\frac{7}{8}$

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6. Cam Talbot let in 1 goal on 11 shots in the first period and 2 goals on 15 shots in the second period.

- a) What was his save percentage in the first period? (1 mark)

- b) What was his save percentage in the second period? (1 mark)

- c) What was his overall save percentage? (2 marks)

7. Explain the difference between a terminating and a repeating decimal (1 mark)