	Date:	
Name:	20100	



Fractions, Decimals, and Percents

MathLinks 7, pp. 132-139

Key Ideas Review

Choose from the following terms to complete each statement. Then complete each example.

repeating terminating numerator denominator divide

1. 0.333... is a _______ decimal. It can also be written as _____.

2. 0.3, 0.35, and 0.359 are _______ decimals. Here they are as fractions:

0.3 = _______ 0.35 = ______ 0.359 = _______

3. To change $\frac{2}{5}$ to a decimal number, _______ the numerator by the ______.

Practise and Apply

4. Use a calculator to change each fraction to a decimal number. Round to the place value indicated.

a)
$$\frac{27}{50}$$
 (tenths)

b)
$$\frac{13}{82}$$
 (tenths)

c)
$$\frac{45}{112}$$
 (hundredths)

d)
$$\frac{204}{331}$$
 (hundredths)

e)
$$\frac{67}{85}$$
 (thousandths)

f)
$$\frac{452}{511}$$
 (thousandths)

Write each repeating decimal using bar notation.

Change each fraction to a repeating decimal. Then use bar notation to show the repeating part.

a)
$$\frac{1}{3} = \underline{} = \underline{}$$

b)
$$\frac{5}{9} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

c)
$$\frac{9}{11} = \underline{} = \underline{}$$

d)
$$\frac{7}{33} =$$
_____ = ____

- Estimate each of the following as a percent. Show your thinking.
 - a) 34 out of 90
 - b) 165 out of 400
- Quarterbacks are compared according to their completion percentages.



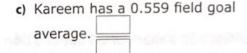
- For each of the following statements, rewrite each percent or decimal as a fraction.
 - a) 23% of Canadians speak French.
 - b) North America is 0.17 of the world's land mass.



Completion percentage = $\frac{\text{Completed passes}}{\text{Attempts}}$

Quarterback	Completed Passes	Attempts	Completion Percentage
Α	231	329	96 SE 96 9
В	143	195	11 1100000
С	298	401	

- a) Fill in the last column by calculating the completion percentage for each quarterback. Round each answer to the nearest thousandth.
- **b)** List the completion percentages in descending order.



10. At Rocky Mountain School, 212 students take the bus and 300 students use a different mode of transportation to get to school. Estimate the percent of students who take the bus to school. Show your thinking.

