**Fraction Operations Final Exam Review**

* **Introduction**

1. Add/Subtract.

2 + 2 6 – 2 4 1+ 8 3 12 1 – 4 1

9 9 7 7 5 5 2 3

1. Calculate.

32 + 72 ÷ 12 – 8 x (16 + 4)

* **Multiplying a Fraction and a Whole Number**

1. Determine each product.

16 x 1 12 x 1 8 x 5 20 x 2

2 4 6 3

1. The width of a rectangle is 1 of its length. What is the width of a rectangle that is 24 cm long? 4
2. There are 30 students in a class 2 of them have a pet. How many students do not have a pet? 5

* **Dividing a Fraction by a Whole Number**

1. Determine each quotient.

1÷ 8 6 ÷ 6

2 5

1. A recipe for soup includes chicken broth. It requires 4 1 cup of broth to make four servings. What fraction of the broth is in each serving? 2
2. People from Alberta, Saskatchewan and Newfoundland make up 3 of the workers in the tar sands. What fraction of workers is from Alberta? 4
3. It takes 2 of an hour to complete two homework assignments. What fraction of an hour

5

does it take to complete one assignment?

* **Multiplying Proper Fractions**

1. Determine the product.

10 x 1 3 x 4 2 x 2 x 2 5 x 3 x 7

7 2 4 3 3 3 3 6 8 10

1. There is 2of a pizza left. You want to 1 of the remaining pizza. How much of the whole pizza

3 4

did you eat?

1. In a sample of grade 8 students 1 of them achieve honors. Of the honor students 1 of them achieve higher than 90%. 3 2

What fraction of Grade 8’s achieved above 90%? If there are 38 grade 8 students how many achieve above 90%?

* **Multiplying Improper Fractions and Mixed Numbers**

1. Change to a mixed fraction.

44

3

1. Change to an improper fraction.

16 3

4

1. Multiply.

8 1 x 8 1 8 1 x 4 2 4 1 x 4 2x 8 2

2 4 5 3 6 5 7

1. Three and a half laps around a race track are equal to 2 km. How many laps are equal to 10 km?
2. A kitchen is 2 1times as long as 2 3 times as wide as a bedroom. How many times greater is the

2 4

area of the kitchen than the area of the bedroom?

* **Dividing Fractions and Mixed Numbers**

1. Determine each quotient

20 ÷ 2 12 1 ÷ 4 5 4 2÷ 8 5

8 4 3 6 3 6

1. It takes 1 1h to clean a movie theatre. How many theatres are cleaned in 9 hours?

2

1. In Canada, about 7 of the population are in PEI and about 1 is in Alberta. How many times as

12 6

big as Alberta is PEI’s population?

* **Applying Fraction Operations**

1. Solve.

6 – 2 x 4 2 + 6 ÷ 6 ÷ 2

5 3 5 3 7 8 5

1. Liam earns $45/h. For time worked above 40h he earns time and a half. How much does he earn if he works 46 3 h?

4

1. Table salt contains sodium and hydroxide. Sodium is usually 5 of the mass of the salt.

6

What is the mass of sodium in 200g of salt? What is the mass of hydroxide in 350g of salt?

**Questions to Review**

Chapter 6 Get Ready

Pg. 202 # 4 – 7

203 # 8 – 16

208 # 4 – 5

6.5 # 6 – 8

208 # 6 – 12

214 # 3 – 6, 14, 15

214 # 7 – 11, 13

Fraction Operations Assignment 1

Pg. 220 # 4 – 9, 20, 21

220 # 10 – 18

Multiplying Fractions Assignment

Pg. 227 # 5 – 10

228 # 11 – 17, 19, 20

234 # 4, 5, 13, 14(a, b, c)

234 # 6 – 12

Fraction Operations Assignment 2

Fraction Operations Test