NAME:

**Unit 5: Rational Expressions and Equations**



This assignment includes multiple choice and short answer questions. For multiple choice questions, select the best answer. Each is worth 1 mark. Marks assigned to short answer questions are indicated for each question. Be sure to show all necessary work.

**/1**\_\_\_\_1. The non-permissible value(s) for the rational expression  is/are

 A. 

 B. 

 C. 1

 D. All of the above

 E. Both A and C

 Answer:

**/1**\_\_\_\_2. The simplified form of the rational expression  is

 A. 

 B. 

 C. 

 D. 

 Answer:

**/1\_\_\_** 3. The simplified form of the rational expression  is

 A. 

 B. 

 C. 

 D. 

 Answer:

**/1\_\_\_** 4. The simplified form of the rational expression  is

 A. 

 B. 

 C. 

 D. 

 Answer:

**/3** 5. Simplify the rational expression . Identify any non-

permissible values and show all work.

 Answer:

**/2** 6. Using an example, explain why non-permissible values must be noted before simplifying

rational expressions and equations.

 Answer:

**/4** 7. Hannah and Jenna are both travelling to a volleyball tournament in Grande Prairie, and leave

 at the same time. Hannah’s parents drive her from Edmonton to Grande Prairie, a distance of

 460 km. Jenna’s team takes a bus from Dawson Creek, BC to Grande Prairie, a distance of

 130 km. Hannah’s parents’ vehicle travels 10 km/h faster than Jenna’s, and Jenna arrives at

 the tournament 3 hours earlier than Hannah. Determine how fast Hannah’s parents are

 driving.

 Answer:

**/13**