NAME:

**Lesson 5.1: Introduction to Rational Expressions**

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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

1. 
2. 
3. 
4. 

Answer:

**/1** 2. The simplified form of the rational expression  is

1. 
2. 
3. 
4. 

Answer:

**/2** 3. Simplify the rational expression . Identify any non-permissible values.

Answer:

**/2** 4. Create a rational expression with a variable *m* that has non-permissible values of 3 and .  
   
 Answer:

**/3** 5. Speed is determined by dividing the distance travelled by the time taken to travel the

distance, or . Write a rational expression for speed, given the distance travelled is

 and the time to travel that distance is . Identify any non-

permissible values.

Answer:

**/9**

You have completed *Lesson 5.1 Explore Your Understanding Assignment*. Please continue your exploration with *Lesson 5.2.*