QUIZ Form A

**Part 1** Choose the letter of the answer that **best** completes each statement.

1. Force is: a) a push b) a pull c) the ability to change motion d) all of these answers

2. Forces that are opposite and equal are called:

a) balanced b) friction c) unbalanced d) gravitational.

3. The force that opposes the motion of an object sliding or rolling is called:

a) acceleration b) density c) friction d) gravity

4. The type of friction that exists for a shark swimming in the ocean is:

a) sliding b) rolling c) hydraulic d) fluid

5. If moving in the same direction, the greater the force acting on the object, the \_\_\_\_\_ its motion will be.

a) less b) greater c) motion is not effected by force

**Part 2** Look at each question and determine if the underlined word or phrase makes that statement true or false. If the statement is true, write “true.” If it is false, change the underlined word or words to make the statement true.

6. A force can set an object in motion, stop its motion, or change the speed and direction of its motion.

7. The combined force of unbalanced forces is always zero.

8. Friction is a force that always acts in a direction opposite to the motion of the moving object.

9. "Slippery" substances such as oil, wax, and grease that reduce friction are called lubricants.

10. Velocity is equal to an object force plus the direction it travels.

**Part 3** Show all work for the problems below.

1. If a moving object travels south for a distance of 200 m in 40 seconds, what is its velocity?
2. How much time would it take for a jet traveling an average speed of 640 km/hr to travel from Michigan to Florida – *the total distance is 3200 km*.

QUIZ Form B

**Part 1** Choose the letter of the answer that **best** completes each statement.

1. The type of friction that exists for a shark swimming in the ocean is:

a) sliding b) rolling c) hydraulic d) fluid

2. Force is: a) a push b) a pull c) the ability to change motion d) all of these answers

3. The force that opposes the motion of an object sliding or rolling is called:

a) acceleration b) density c) friction d) gravity

4. If moving in the same direction, the greater the force acting on the object, the \_\_\_\_\_ its motion will be.

a) less b) greater c) motion is not affected by force

5. Forces that are opposite and equal are called:

a) balanced b) friction c) unbalanced d) gravitational.

**Part 2** Look at each question and determine if the underlined word or phrase makes that statement true or false. If the statement is true, write “true.” If it is false, change the underlined word or words to make the statement true.

6. A force can set an object in motion, stop its motion, or change the speed and direction of its motion.

7. Friction is a force that always acts in a direction opposite to the motion of the moving object.

8. "Slippery" substances such as oil, wax, and grease that reduce friction are called lubricants.

9. The combined force of unbalanced forces is always zero.

10. Velocity is equal to an object force plus the direction it travels.

**Part 3** Show all work for the problems below.

1. If a moving object travels south for a distance of 400 m in 80 seconds, what is its velocity?
2. How much time would it take for a jet traveling an average speed of 480 km/hr to travel from Michigan to Florida – *the total distance is 1920 km*.

Answers

Form A

1. d

2. a

3. c

4. d

5. b

6. true

7. false - balanced

8. true

9. true

10. false - speed

11. v = d/t = 200 m / 40 s = 5 m/s

12. t = d/v = 3200 km / 640 km/hr = 5 hours

Form B

1. d

2. d

3. c

4. b

5. a

6. true

7. true

8. true

9. false - balanced

10. false - speed

11. v = d/t = 400 m / 80 s = 5 m/s

12. t = d/v = 1920 km / 4800 km/hr = 4 hours