

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) The coefficient of friction is found by _____. 1) _____
 - A) dividing tensile force by weight force
 - B) dividing weight force by tensile force
 - C) multiplying the tensile force by the weight force
 - D) multiplying the weight force by the tensile force

- 2) All of the following are correct statements about braking EXCEPT _____. 2) _____
 - A) kinetic energy must be absorbed by the braking system
 - B) kinetic energy of a vehicle doubles when the speed doubles
 - C) the heavier the vehicle, the greater the kinetic energy when moving
 - D) if the vehicle weight is doubled, the kinetic energy of a moving vehicle is doubled

- 3) It takes 50 pounds of force to move a 100 pound block of wood across the floor. The coefficient of friction is _____. 3) _____
 - A) 1.5
 - B) 2.0
 - C) 0.5
 - D) 1.0

- 4) What type of binder is used in all brake friction materials? 4) _____
 - A) Rubber scrap
 - B) Carbon
 - C) Phenolic resin
 - D) Ceramic powders

- 5) Weight transfer during braking is caused by _____. 5) _____
 - A) inertia
 - B) friction
 - C) weight bias
 - D) brake bias

- 6) The front brakes on a vehicle do more work than do the rear brakes. Technician A says that this is because the front wheel cylinders are closer to the master cylinder than are the rear wheel cylinders. Technician B says that this is because the weight of a vehicle shifts to the front during a stop. Which technician is correct? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 7) Work is the transfer of energy from one physical system to another. 7) _____
 - A) True
 - B) False

- 8) Weight has a greater effect on kinetic energy than speed. 8) _____
A) True
B) False
- 9) Why is copper being reduced in brake friction materials? 9) _____
A) Because it is a health concern when it becomes airborne.
B) It can affect life in rivers and streams.
C) To help reduce the weight of the vehicle
D) To help reduce the cost of the brake pads/linings
- 10) Where are brake lining "edge codes" printed? 10) _____
A) On the edge of brake shoes
B) On the back of brake pads
C) On the front of brake pads
D) Either A or B

Answer Key

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1) A

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2) B

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3) C

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4) C

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5) A

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6) B

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7) A

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8) B

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9) B

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10) D

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