



Name _____ Class _____ Date _____

1 In the image below, what **forces** are working **against** the man as he tries to **push** the rock?

- A humidity and friction
- B gravity and friction
- C gravity and temperature
- D friction and momentum



2 In order for a man to move a **large** rock, what could be done to make the rock **move more easily**?

- A decrease the man's force against the rock
- B increase the friction under the rock
- C decrease the air under the rock
- D decrease the friction under the rock



3 **Force** is measured in **units** called _____.

4 To calculate the amount of force, a student would multiply **mass x acceleration**. Knowing this, how could the amount of force be maintained if the mass



PREVIEW

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7 earth, _____.

- A friction remains the same
- B friction increases
- C friction decreases
- D gravity decreases



that a woman is exerting **100 N** (newtons) of force, what is her **mass** if she is accelerating at **2 ft/s²**?

- A 20 kg
- B 50 kg
- C 100 kg
- D 200 kg

$$F = ma$$

9 When a person rows a boat, he pushes the water **backwards**, but the boat goes **forward**. This is an example of **Newton's third law**, which states _____.

- A what comes up must come down
- B energy is always conserved
- C for every action there is an equal and opposite reaction
- D every object in motion tends to stay in motion unless acted on by an external force

10 **Net force** is the **difference** between a force going one way and another force going the opposite way. As a boy is rowing **forward**, what could happen to **reduce** his net force?

- A wind pushes him forward
- B wind pushes him back
- C waves push him forward
- D humidity holds him back

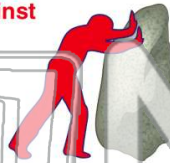




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