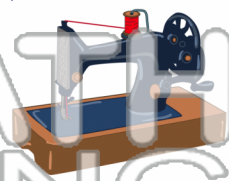Name_____ Class_____ Date_____

1 A man is using a machine and applying 400 N of force. If the mechanical advantage of this machine is doubled, how much force would he have to apply?

A double the original force
B half the original force
C the same original force
D no force at all

2 Since it includes **several simple machines** working **together**, a **sewing machine** is an example of a _____.

A divided machine
B useless machine
C simple machine
D compound machine

3 What two **simple machines** is this man using?

4 A man pushes a grocery cart with **15 Newtons** of force and travels **30 meters.**

How much **work** is done?

5

7 ... **greater** than the amount of work input.

True or false?

A true
B false

A Increase the work output so it is greater than work input.
B Decrease the mechanical advantage.
C Decrease the input force over a greater distance.
D Block the input force.

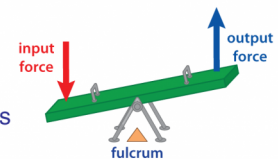**9** What type of **lever** is a hockey stick?

A first-class
B second-class
C third-class
D It is not a lever.

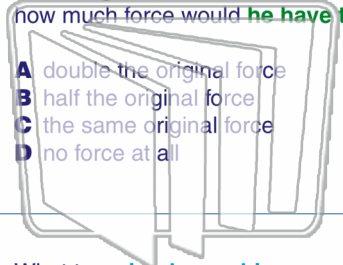**10** What type of **lever** is shown in this image?

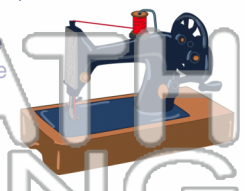A first-class
B second-class
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D It is not a lever.

input force
output force
fulcrum

Name_____ Class_____ Date_____

1 A man is using a machine and applying 400 N of force. If the mechanical **advantage** of this **machine** is **doubled**, how much force would **he have to apply**?

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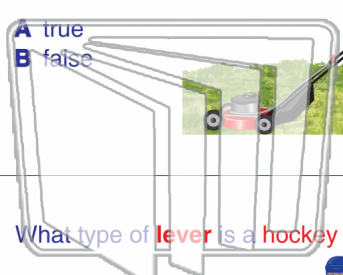D

3 What two **simple machines** is this man using?

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input force
output force
fulcrum

C