

Lesson 5 Pre/Post-Test: Pulleys

SCORING GUIDE

1. The mechanical advantage of a single fixed pulley

- a.) depends on the number of ropes.
- b.) equals 10.
- c.) equals 0.
- d.) equals 1.

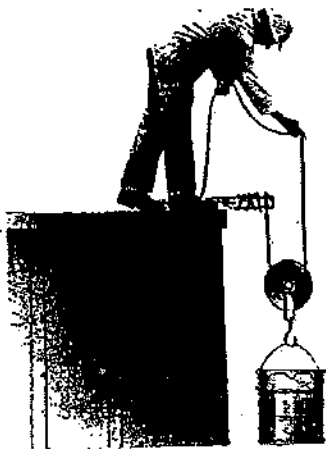
D: EQUALS 1

2. The mechanical advantage of a single movable pulley

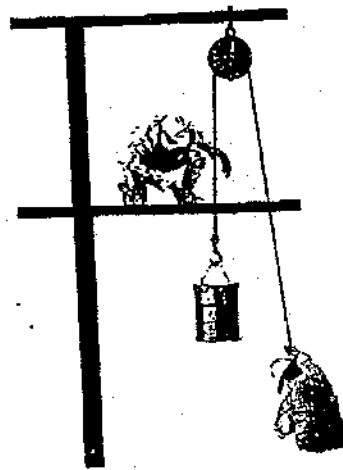
- a.) depends on the number of ropes.
- b.) equals 2.
- c.) equals 1.
- d.) equals 0.

B: EQUALS 2

3 Label each pulley as either a fixed or movable pulley.



MOVEABLE pulley



FIXED pulley

4. True/False? A movable pulley increases the size of the effort force.

TRUE

5. True/False? A fixed pulley increases the mechanical advantage (MA).

FALSE

6. True/False? A fixed pulley only changes the direction of a force.

TRUE

7. True/False? A movable pulley only changes the direction of a force.

FALSE

8. Draw a simple diagram of a fixed pulley.

SEE #3

9. Draw a simple diagram of a movable pulley.

SEE #3