

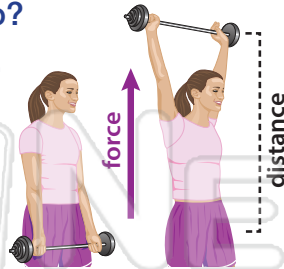


Name _____ Class _____ Date _____

1 The **unit of measurement** used to tell how much **work** has been done is called a **joule**. What is **1 joule** equal to?

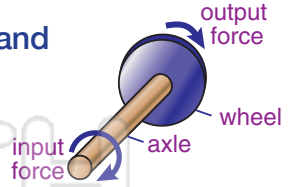
Circle the answer letter.

- a. 1 N x 1 kg
- b. 1 N x 1 m
- c. 1 m x 1 L



6 What two pieces of **information** are necessary to calculate the **mechanical advantage** of this simple machine?

- a. length of the axle and width of the wheel
- b. radius of both the wheel and axle
- c. radius of the axle and thickness of the wheel



2 In the diagram below, a worker is pushing a barrel up a **ramp**. Another name for this **ramp** is a(n) _____.

- a. pulley



7 A **pulley** system has **50% work efficiency**. If the **work put in** is **100 joules**, the amount of **work done** by the system

3 T
f
b
t
a
k
c

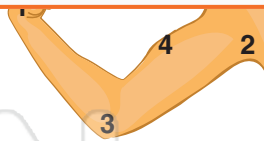


PREVIEW

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4 K
d
is

Write the number below.



5 The **mechanical advantage** of a **screw** is calculated by **dividing** _____.

- a. the length around the threads by the length of the screw
- b. the length of the screw by the number of threads
- c. the diameter of the screw by its length



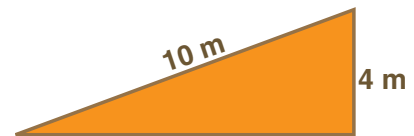
10 Which **combination of actions** would **improve the efficiency** of a machine?

- a. increase work input & work output
- b. decrease work input & maintain work output
- c. decrease both work input & output

output x 100
work input

sewing

antage of
work.



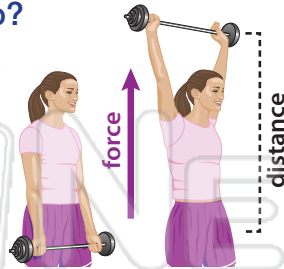


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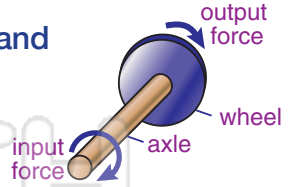
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C



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sewing

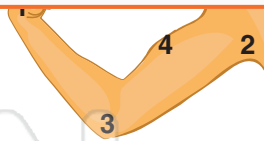
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d
is

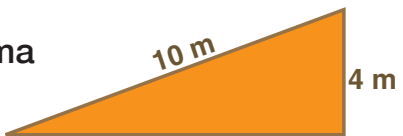
Write the number below.

3



length/height = ma

$$20 \text{ m} / 5 \text{ m} = 4$$



antage of
work.

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