

ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

A micrometer is used to measure _____.

- A. small changes in temperature
- B. changes in psi
- C. thicknesses to a few thousandths of an inch
- D. objects invisible to the unaided eye

Correct Answer: C

Micrometers measure very small but not microscopic objects.

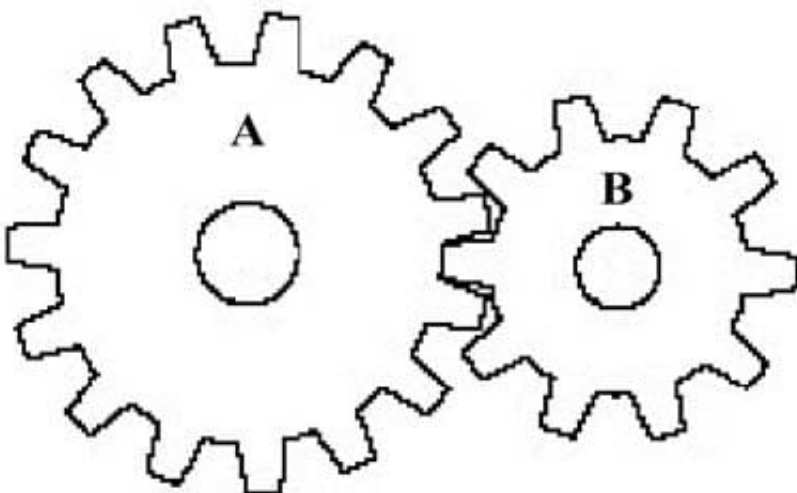
QUESTION 2

A hydraulic jack performs the task of moving objects by _____.

- A. utilizing oil; because oil cannot be compressed, pressure is placed upon the oil, resulting in a lifting motion
- B. pressing together two interfacing parts to increase height
- C. using a pulley system to lift items
- D. using a corkscrew-like effect to function

Correct Answer: A

QUESTION 3



For Gear A and Gear B to mesh properly in the figure above _____.

- A. They must be the same size.
- B. They must turn at different rates.
- C. They must both turn in the same direction.
- D. Their teeth must be of equal size.

Correct Answer: D

Gears of unequal size can mesh properly as long as their teeth are of equal size.

QUESTION 4

For two gears to mesh properly, they must _____.

- A. rotate at the same speed
- B. rotate in the same direction
- C. have the same size teeth
- D. have the same number of teeth

Correct Answer: C

For two gears to mesh properly, they must have the same size teeth.

Different size gears will, by definition, rotate at different speeds even when their driving axles are moving at the same speed.

Also, interlocking or meshing gears rotate in opposite directions.

QUESTION 5

The rate at which work is done is called _____.

- A. Power
- B. Effort
- C. Watts
- D. Horsepower

Correct Answer: A

The English unit of power is foot pound per second. It takes 550 foot pounds to make 1 horsepower.

The SI unit is the joule per second or watt. A horsepower is 746 watts.

The rate at which work is done is called power. Power is work done per unit of time.

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