

ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

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 2



In the figure shown above, what effort E must be applied to lift the cat?

A. 7.0 pounds

B. 9.0 pounds



- C. 21.0 pounds
- D. 10.5 pounds

Correct Answer: A

Apply the leverage formula: Length of Effort Arm divided by Length of Resistance Arm = Resistance Force divided by Effort Force. Or: $9 \div 3 = 21 \div E$ (effort force) $3 = 21 \div E$ $3E = 21 \div E \times E$ $3E = 21 3E \div 3 = 21 \div 3 E = 7$

QUESTION 3

An "inclined plane" is a commonly used implement and has many applications, including handicap access.

What is the most common name for an inclined plane?

- A. A pulley system
- B. A lever
- C. A ramp
- D. A series of gears

Correct Answer: C

QUESTION 4

Which of the following will happen when a mass of air contracts?

- A. The air remains at the same temperature
- B. The air gets colder
- C. The air gets warmer
- D. The air moves faster
- Correct Answer: B

Air is a gas. According to the gas laws, gasses will get colder when they contract.

QUESTION 5



			0 10 20 30	
The pressure gauge in the figure above shows a reading of				
A. 15.0				
B. 19.5				
C. 21.0				
D. 23.0				
Correct Answer: C				
The gauge shows a reading of 21.				

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