



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

How does oil function in a machine with a series of moving parts?

- A. Oil functions as a cleaning agent, allowing all moving parts to remain free of dirt and grime.
- B. Oil functions as a source of lubrication, allowing moving parts to function as a single unit.
- C. Oil serves as a fuel for moving parts in a machine.
- D. Oil provides a source of power when paired with fire.

Correct Answer: B

QUESTION 2

Air weighs about 15 psi.

What's the amount of pressure (force) exerted on the top of your head, given a surface area of 24 inches?

- A. 360 pounds
- B. 625 pounds
- C. 5/8 pound
- D. 180 pounds

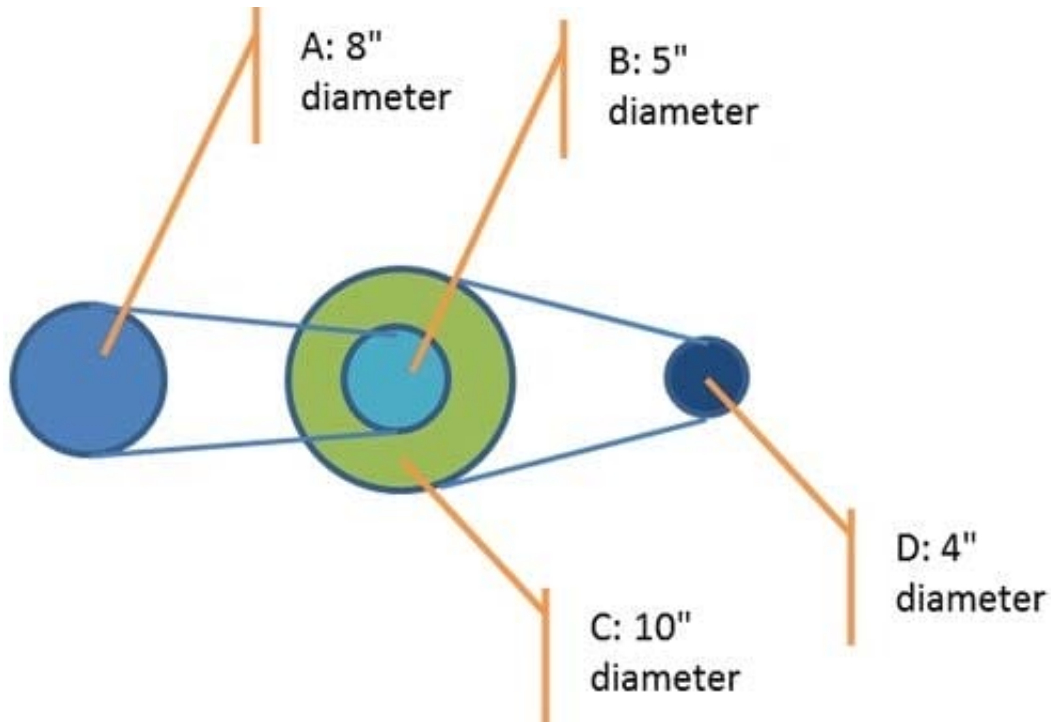
Correct Answer: A

Power equals force divided by area in square inches ($P = F/A$). This formula can also be stated as $F = A \times P$.

Substitute the known quantities. $F = 15 \times 24 = 360$ pounds.

QUESTION 3

In the pulley system below, how fast does pulley D rotate, if pulley A rotates at 50 rpm?



- A. 100 rpm
- B. 50 rpm
- C. 200 rpm
- D. 64 rpm

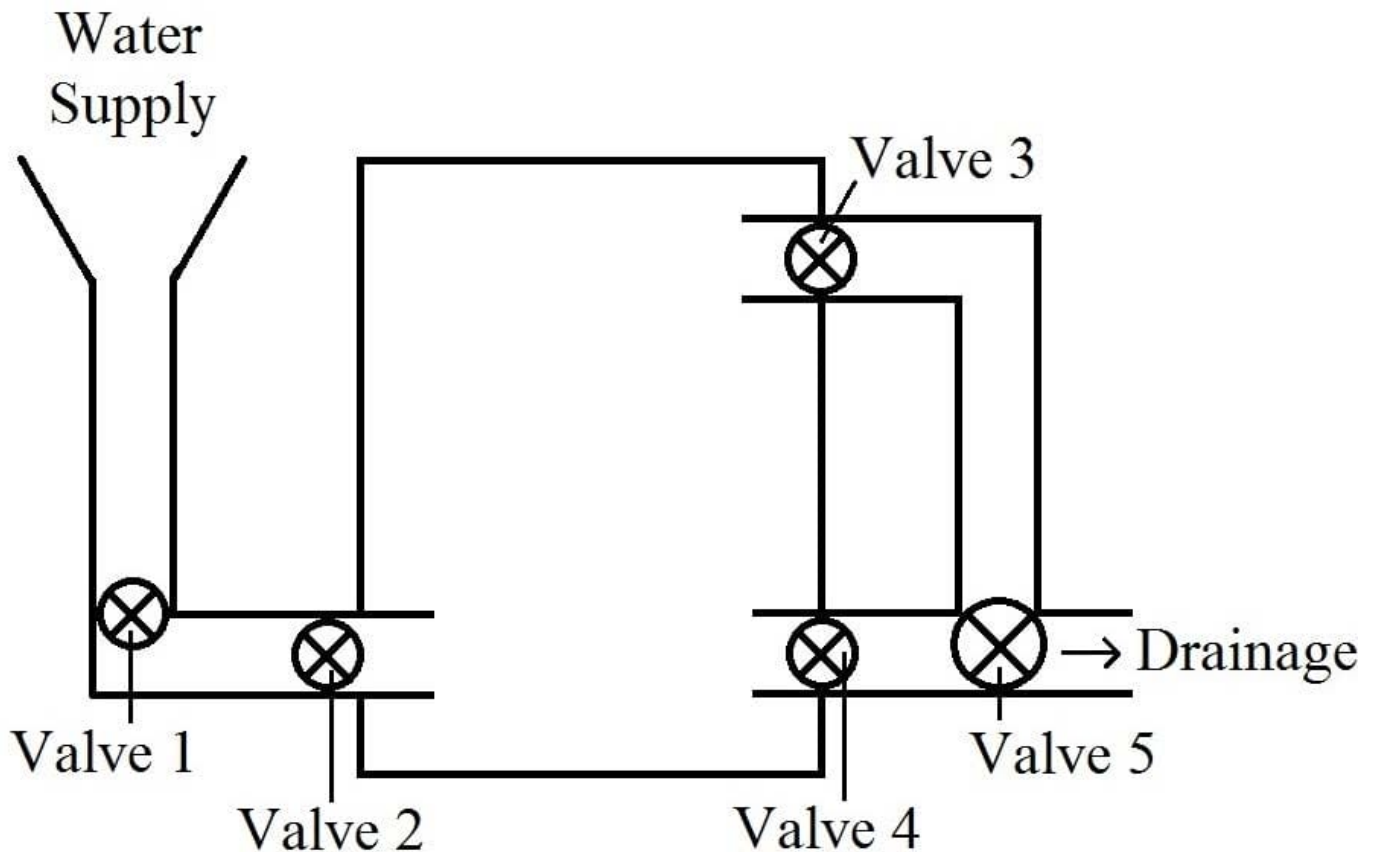
Correct Answer: C

A larger pulley causes a smaller pulley to rotate faster by the ratio of their diameters.

If pulley A rotates at 50 rpm, then pulley B rotates at $50 \times \frac{8}{5} = 80$ rpm. Since C is directly connected to B it rotates at the same rate (80 rpm).

Finally, pulley D will rotate at $80 \text{ rpm} \times \frac{10}{4} = 200$ rpm

QUESTION 4



In the figure above, assume the valves are all open.

Which valves need to be closed for the tank to fill up completely?

- A. 3 and 4 only
- B. 3, 4, and 5
- C. 2, 3, and 4
- D. 4 only

Correct Answer: A

Closing only Valves 3 and 4 keeps the water from leaving the tank.

QUESTION 5

What determines the speed of an output gear?

- A. None of these (Gear speed is not capable of alteration.)
- B. The size of gears.
- C. The speed of the input gear and the ratio of the number of teeth on each gear.
- D. The ratio of companion gears.



Correct Answer: C

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