# ASVAB-SECTION-3<sup>Q&As</sup>

ASVAB Section Three : Mechanical Comprehension

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**QUESTION 1**

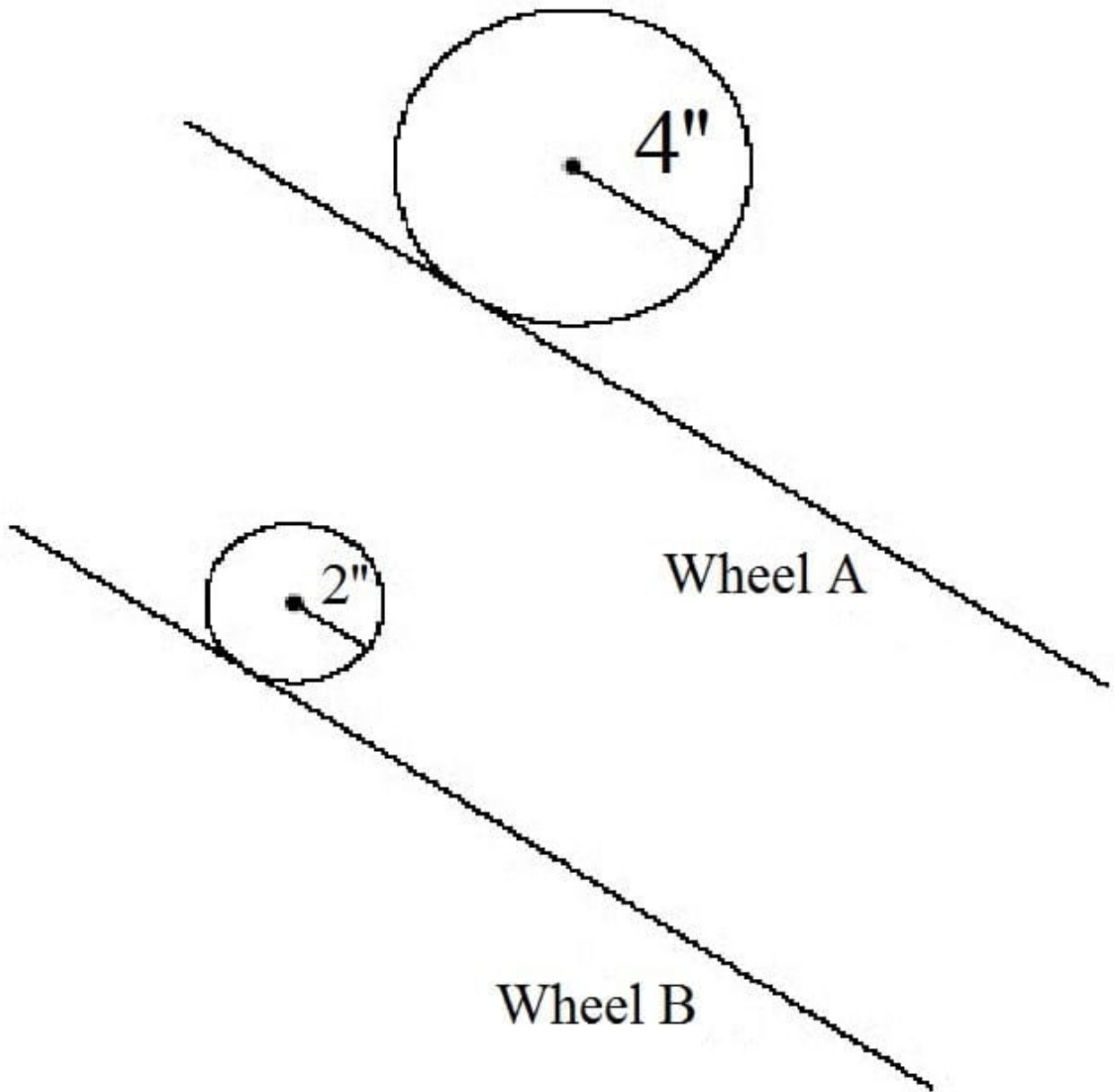Pulley systems require the synchronized movement of all pulleys.

How can pulleys escape this rule?

A. To violate this rule, pulley systems may be used in conjunction with gears.

B. This rule cannot be effectively violated.

C. To violate this rule, pulley system belts must be reversed.

D. Pulleys using twisted belts may move in opposing directions.

Correct Answer: D

**QUESTION 2**

If both Wheel A and Wheel B revolve at the same rate in the figure above, Wheel A will cover a linear distance of 12 feet _____.

A. faster than Wheel B

B. slower than Wheel B

C. in about the same time as Wheel B

D. half as quickly as Wheel B

Correct Answer: A

Wheel B has to make more revolutions to cover the same ground as Wheel A, so it will cover the distance more slowly.

**QUESTION 3**

When a football is thrown upwards in the air, what causes it to arc back towards the ground?

A. Centrifugal force

B. Gravity

C. Friction

D. Wind resistance

Correct Answer: B

Gravity is the force that causes objects to be pulled back towards the earth.

**QUESTION 4**

Which of the following would feel hottest at one end if the other end were placed over a fire?

A. A metal skewer

B. A wooden stick

C. A plastic rod

D. A rubber stick

Correct Answer: A

Of the four materials, metal is the best conductor of heat, so a metal skewer would feel the hottest.

**QUESTION 5**

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 ×

P.

Substitute the known quantities. F = 15 × 24 = 360 pounds.

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