ASVAB-SECTION-3$^{Q\&As}$

ASVAB Section Three : Mechanical Comprehension

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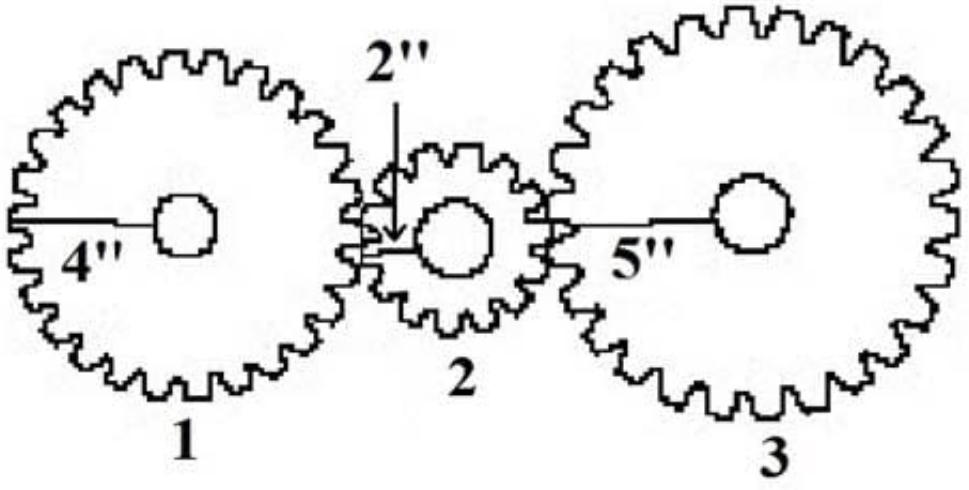
QUESTION 1



If Gear 1 in the figure above makes 10 complete clockwise revolutions per minute, then _____.

A. Gear 2 makes 2 clockwise revolutions per minute.

B. Gear 3 makes 8 clockwise revolutions per minute.

C. Gear 3 makes 30 clockwise revolutions per minute.

D. Gear 3 makes 9 counterclockwise revolutions per minute.

Correct Answer: B

Gear 1 makes 10 clockwise revolutions per minute. Gear 2, which is half the size, makes 20 counterclockwise revolutions per minute. (The number of revolutions it makes is inversely proportional to its difference in size.) Gear 2 is half the size of Gear 1, so to determine the number of revolutions it makes, multiply the number of revolutions Gear 1 makes by the inverse of 1?2: 10 × 2?1 (or just 2) = 20. Gear 3 is 2.5 times the size of Gear 2. In other words, it is 5?2 the size of Gear 2. To determine the number of revolutions Gear 3 makes, multiply the inverse of 5?2 by the number of revolutions Gear 2 makes: 2?5 × 20. This can be stated as 20?1 (the number of revolutions Gear 2 makes per minute) × 2?5 (the fraction of revolutions Gear 3 makes) = 40?5 or 8 revolutions per minute.

QUESTION 2

Which of the following statements is true for water flowing from a 4-inch pipe to a smaller 2-inch pipe?

A. The same amount of water passes through both the 4-inch pipe and the 2-inch pipe.

B. The pressure is greater in the 2-inch pipe.

C. More water passes through the 4-inch pipe than through the 2-inch pipe.

D. The pressure is lower in the 4-inch pipe.

Correct Answer: A

Water cannot be compressed. Therefore, the same amount of water must be flowing through both the 4inch pipe and the 2-inch pipe.

QUESTION 3

When meshing or interlocking gears have different numbers of teeth, _____.

A. relative speeds depend on the speed of the drive aide for both

B. both gears will rotate at the same speed

C. the gear with more teeth will rotate fester than the gear with fewer teeth

D. the gear with fewer teeth will rotate fester than the gear with more teeth

Correct Answer: D

When meshing or interlocking gears have different numbers of teeth, the gear with fewer teeth will rotate

faster than the gear with more teeth.

If two gears are meshed, both cannot be driven or something will break – one must be driving and one

must be driven.

QUESTION 4

Using a runner gives you a mechanical advantage of _____.

A. 4

B. 2

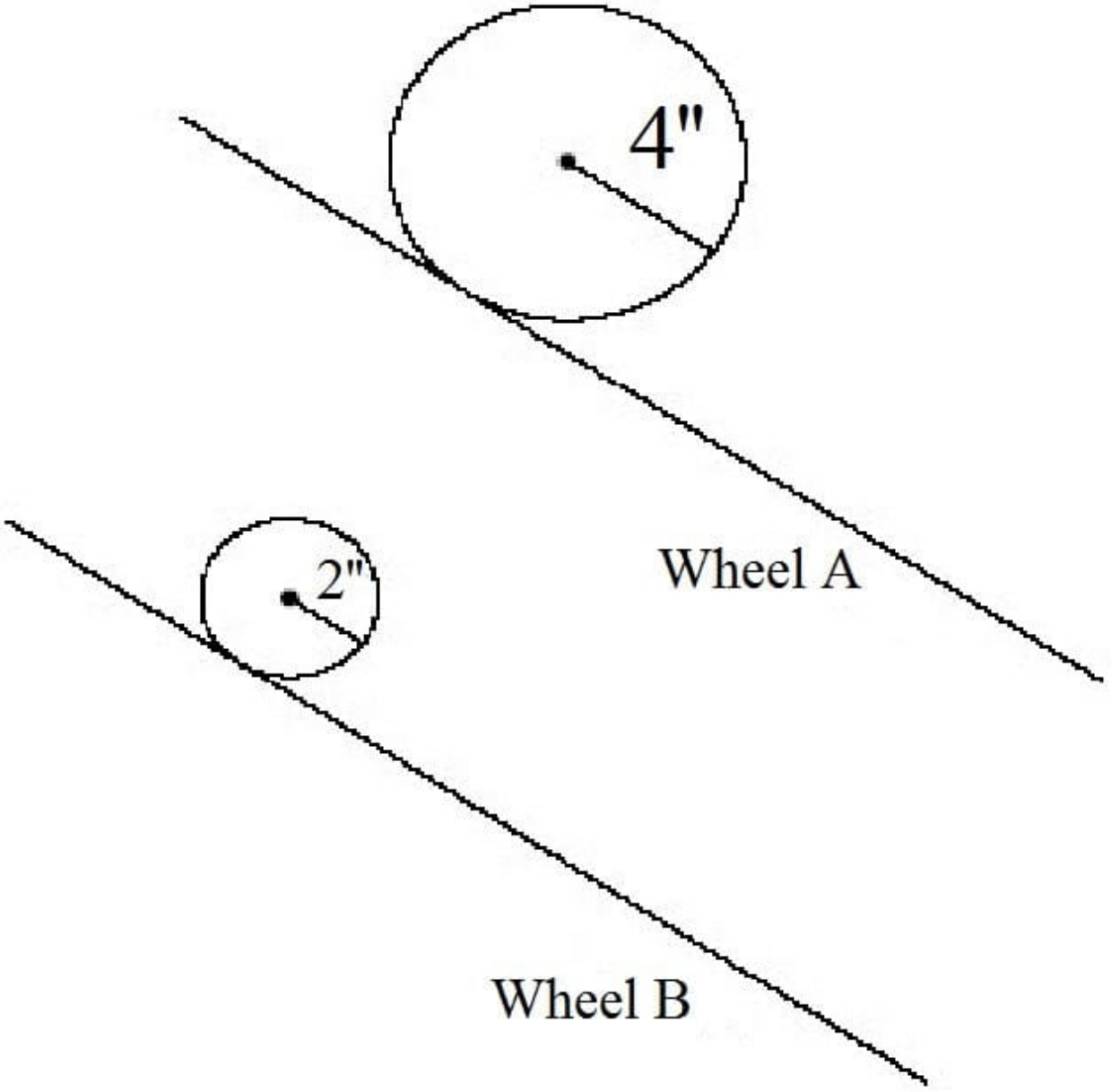
C. 3

D. 1

Correct Answer: B

Using a runner (a single, moveable pulley) gives a mechanical advantage of 2.

QUESTION 5



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.

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