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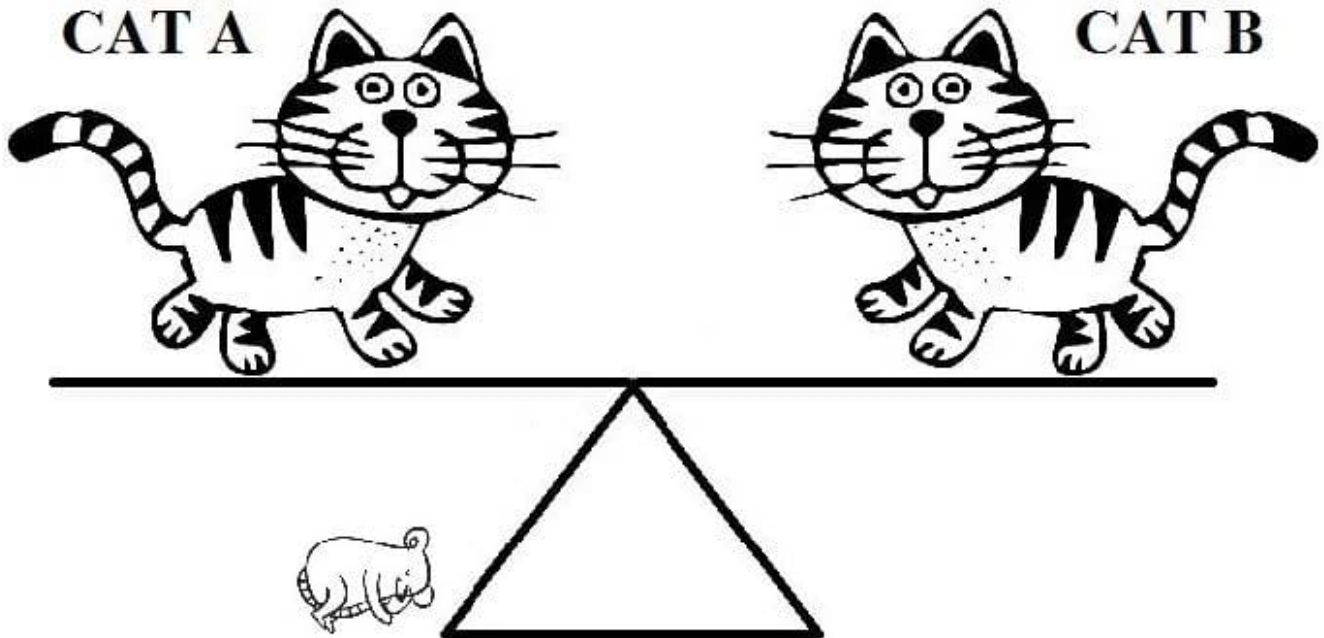
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QUESTION 1

In the figure above, if Cat A moves toward the middle of the seesaw to get a better look at the mouse, Cat B will _____.
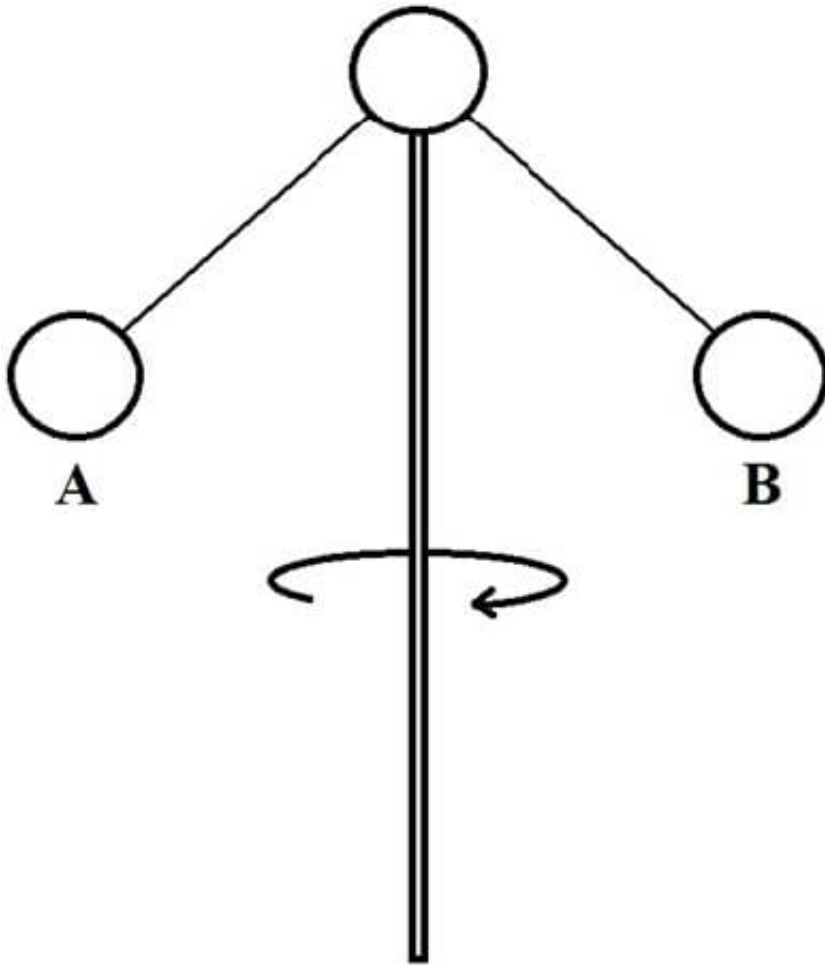
A. remain stationary

B. move toward the ground

C. rise in the air

D. instigate a cat fight

Correct Answer: B

The Cat B will move towards the ground.

QUESTION 2

As the central shaft in the illustration below spins faster in a clockwise direction, the balls labeled A and B will _____.

A. move outward and downward
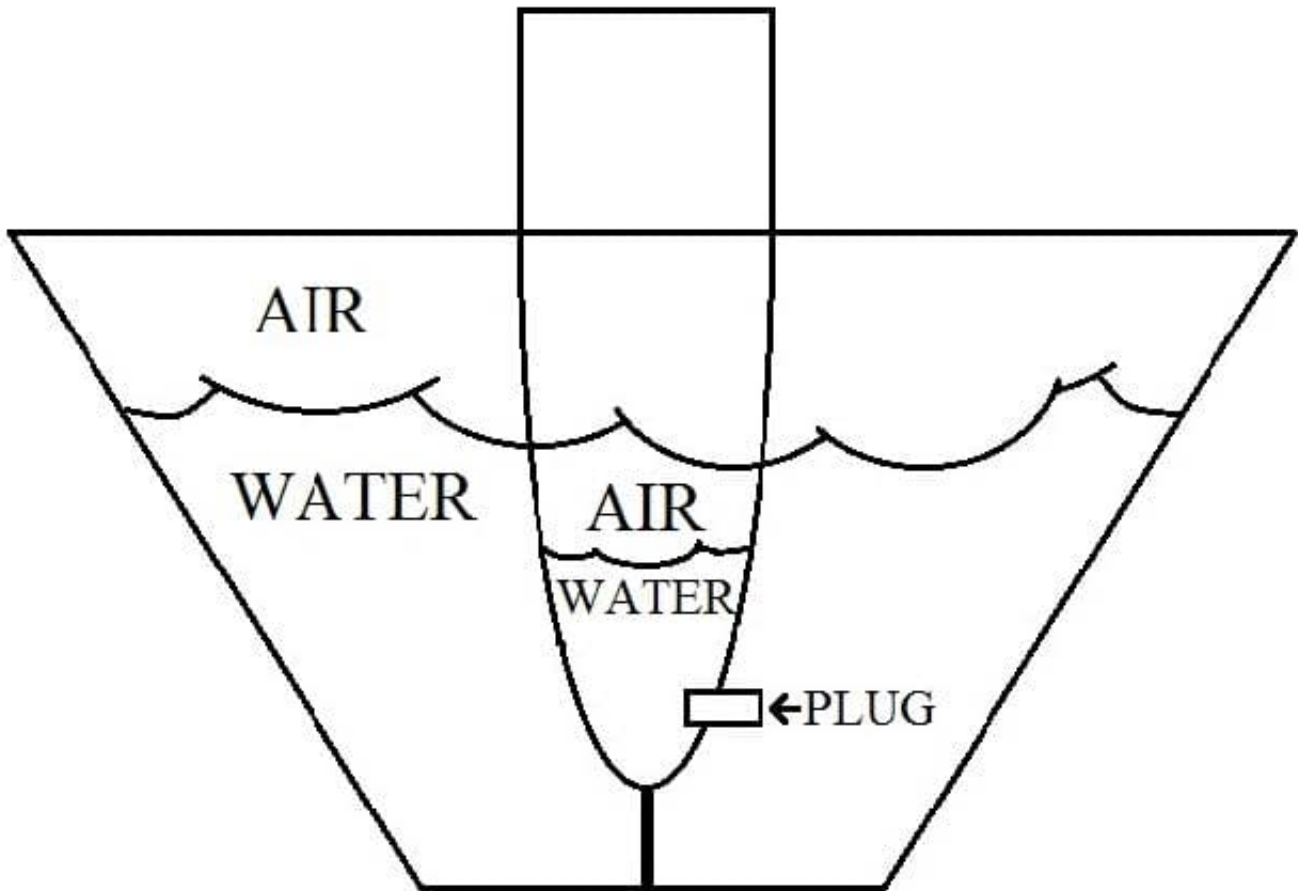
B. move outward and upward

C. move up

D. move down

Correct Answer: B

Centrifugal force from the spinning shaft, regardless of direction, will cause the balls to move outward, away from the shaft; the tension on the strings holding them will result in the balls moving upward.

QUESTION 3

When the plug in the tube is removed, water will flow _____.

A. into the tube

B. out of the tube

C. neither direction

D. impossible to tell

Correct Answer: A

When the plug is removed, water will flow into the tube to equalize the water level both inside and outside the tube.

QUESTION 4

A micrometer is used to measure _____.

A. small changes in temperature

B. changes in psi

C. thicknesses to a few thousandths of an inch
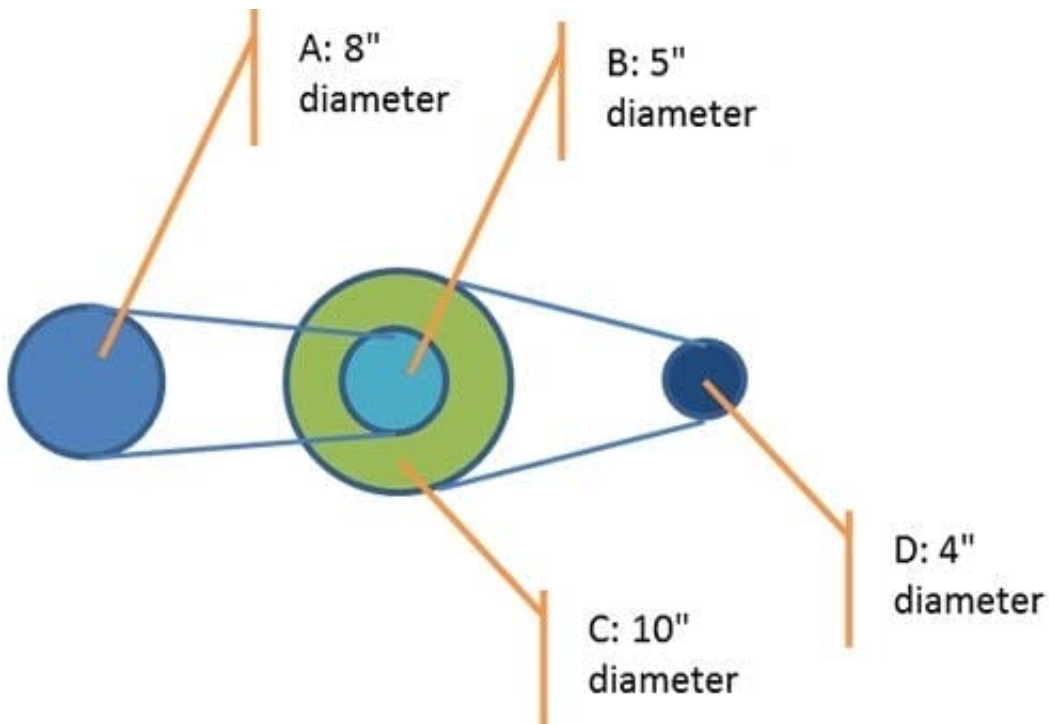
D. objects invisible to the unaided eye

Correct Answer: C

Micrometers measure very small but not microscopic objects.

QUESTION 5

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 × 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 rpm x 10/4 = 200 rpm

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