

Construction and Industry

Mechanical-Aptitude

Mechanical Aptitude Exam

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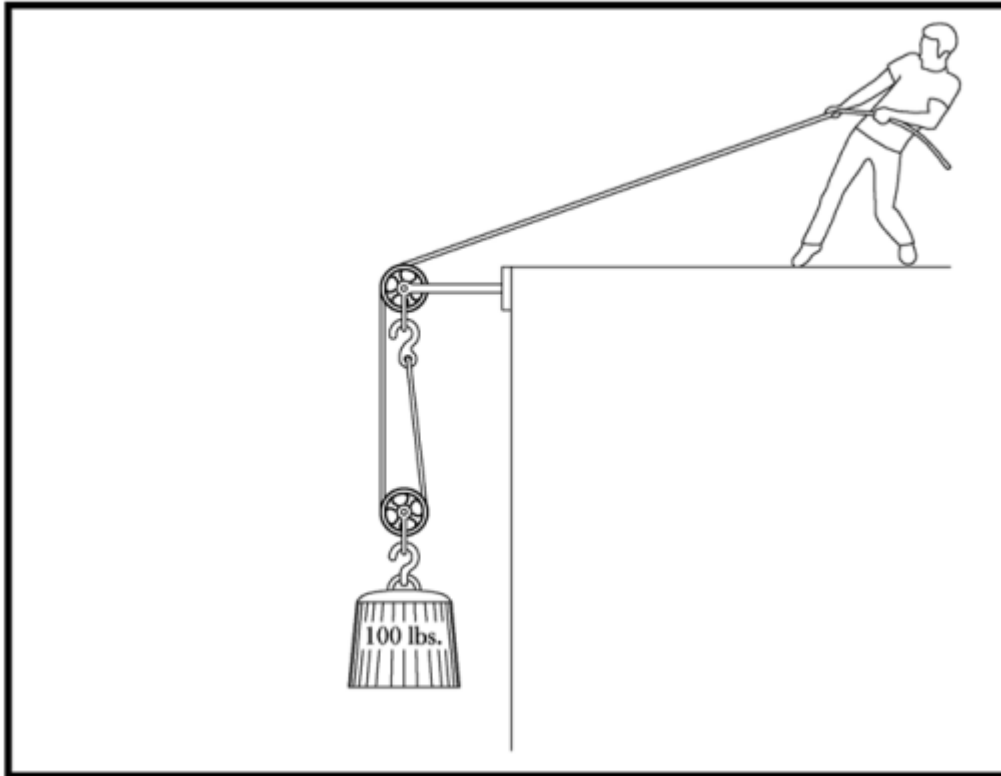


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Question: 1



In the figure above, about how much force does the man have to pull with to raise the 100 lb weight?

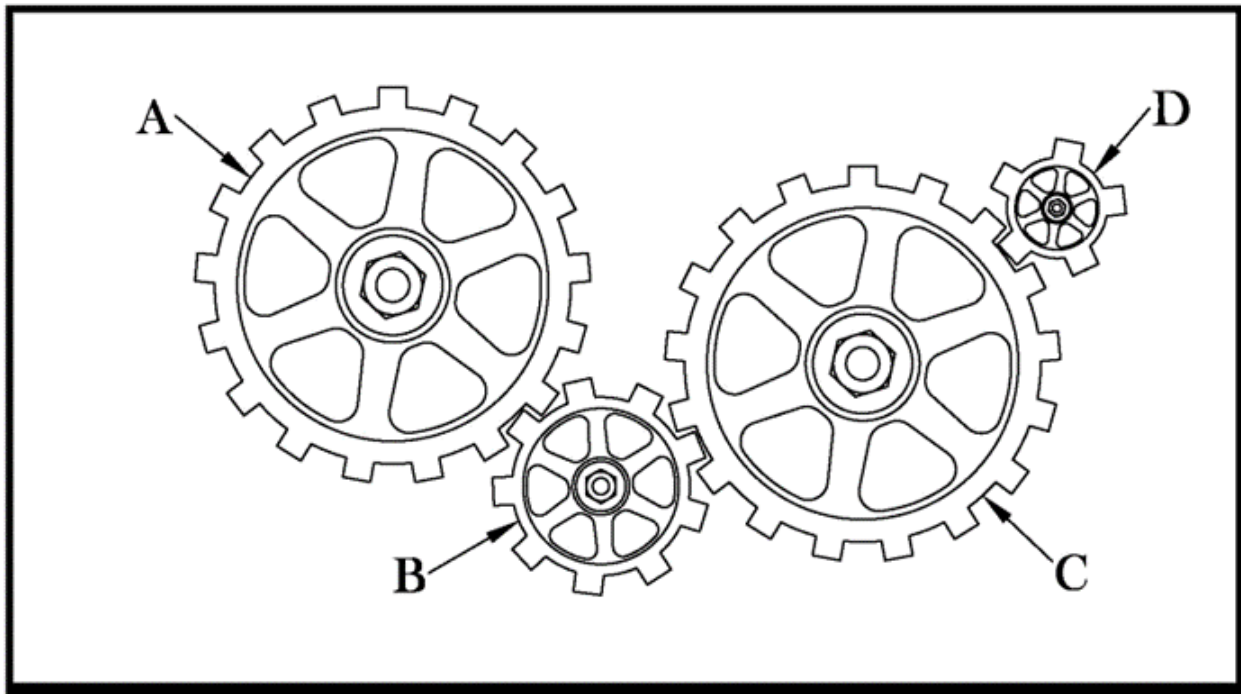
- A. 200 pounds
- B. 100 pounds
- C. 50 pounds
- D. 25 pounds

Answer: C

Explanation:

There are two rope segments supporting the weight in this figure, so the 100 pounds is divided by 2.

Question: 2



In the figure above, if gear C is turning at 100 RPM, which of the following is the best estimate for how fast gear B is turning?

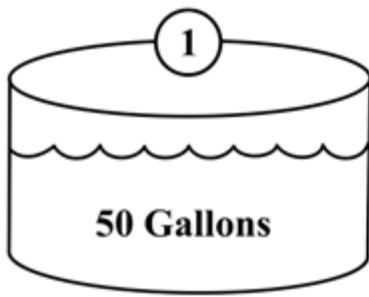
- A. 30 RPM
- B. 50 RPM
- C. 100 RPM
- D. 200 RPM

Answer: D

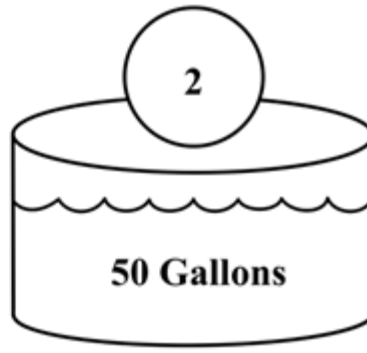
Explanation:

Gear B is only about half as big as gear C, so it must be turning about twice as fast.

Question: 3



A



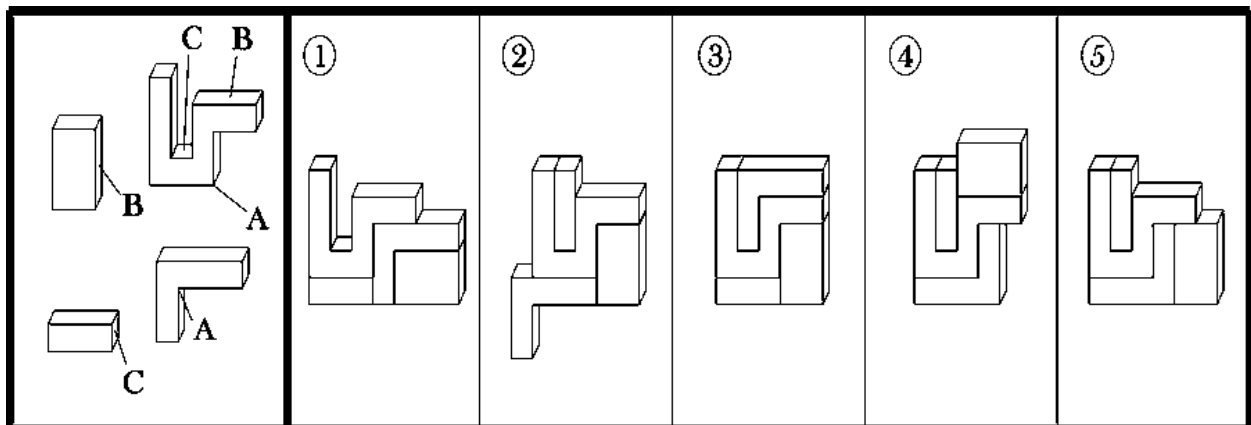
B

Objects 1 and 2 are submerged in separate tanks, both filled with water. In which tank (A or B) will the water level be the highest? (If equal, choose C)

- A. A
- B. B
- C. C

Answer: B

Question: 4

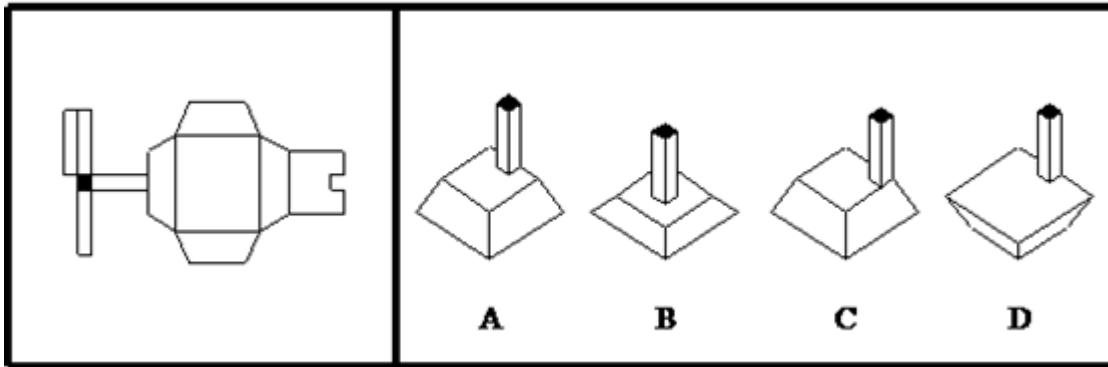


Which of the follow assemblies can be formed from the given parts?

- A. 1
- B. 2
- C. 3
- D. 10
- E. 4

Answer: D

Question: 5



Which shape can be formed by folding the given pattern?

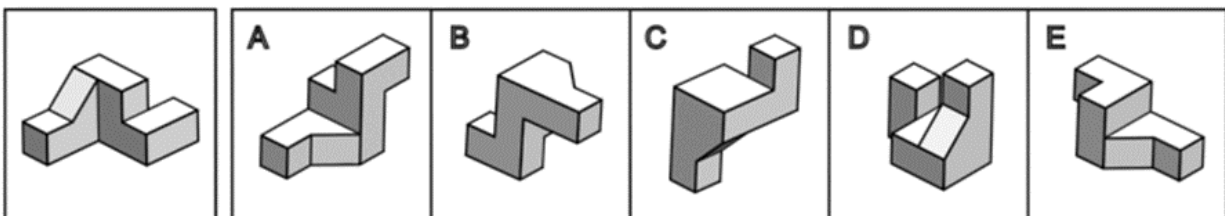
- A. A
- B. B
- C. C
- D. D

Answer: A

Explanation:

When folded, the pattern will form a shape like the bottom half of a pyramid, with a large protrusion extending from the middle of one edge. Only choice A shows such an arrangement.

Question: 6

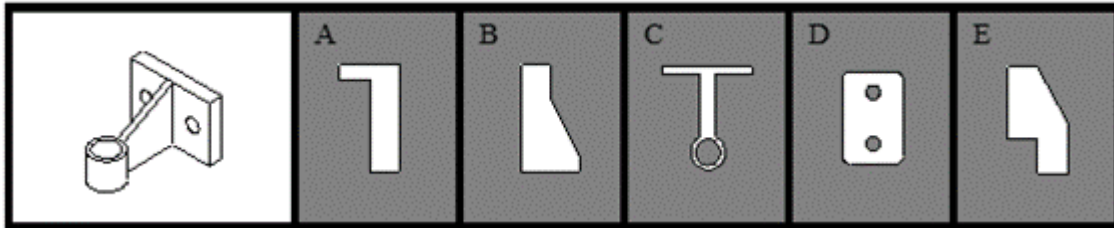


Which of the answer choices shows the same block as the original?

- A. A
- B. B
- C. C
- D. D
- E. E

Answer: B

Question: 7



Which of the following apertures could the object pass through?

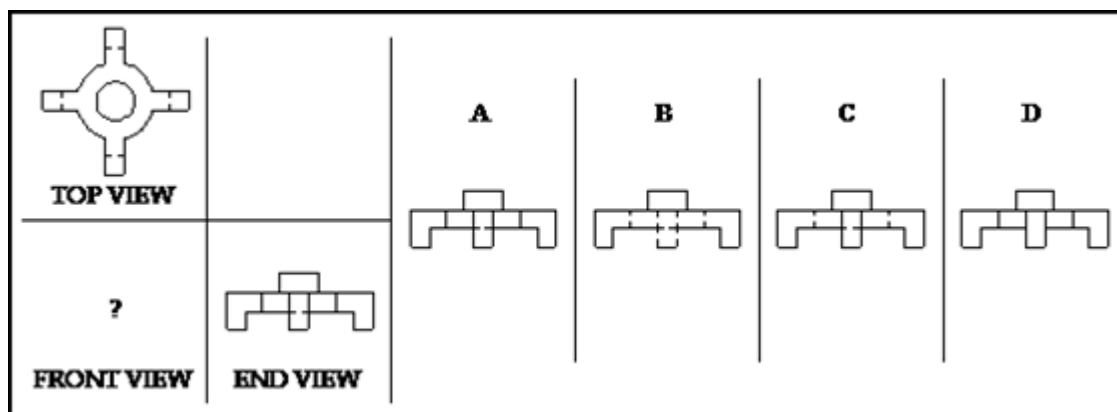
- A. A
- B. B
- C. C
- D. D
- E. E

Answer: B

Explanation:

This corresponds to a side profile of the object. Choice C almost matches the top-view profile of the object, but the thicknesses are wrong. D closely approximates the front view of the object, but the corners are rounded, so the object won't pass through.

Question: 8



Which of the following answer choices shows a front view of the object?

- A. A
- B. B
- C. C

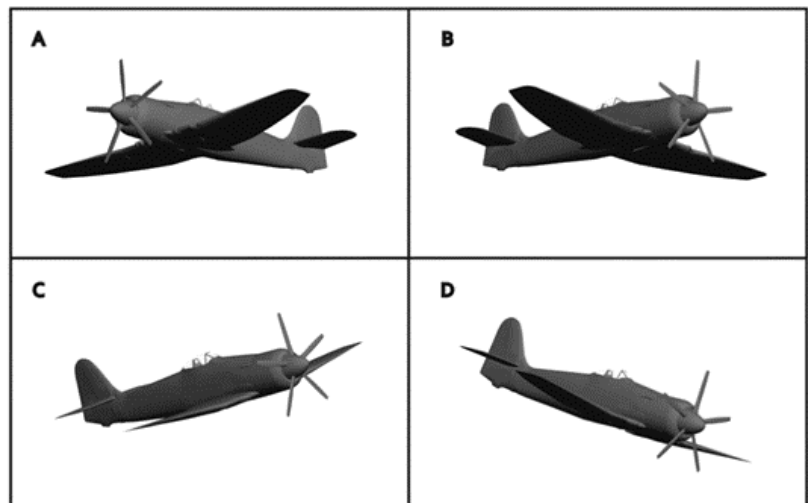
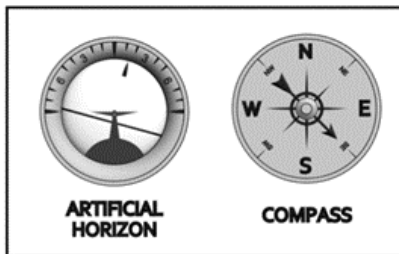
D. D

Answer: A

Explanation:

The part has radial symmetry, so the front view in this case will be the same as the end view.

Question: 9

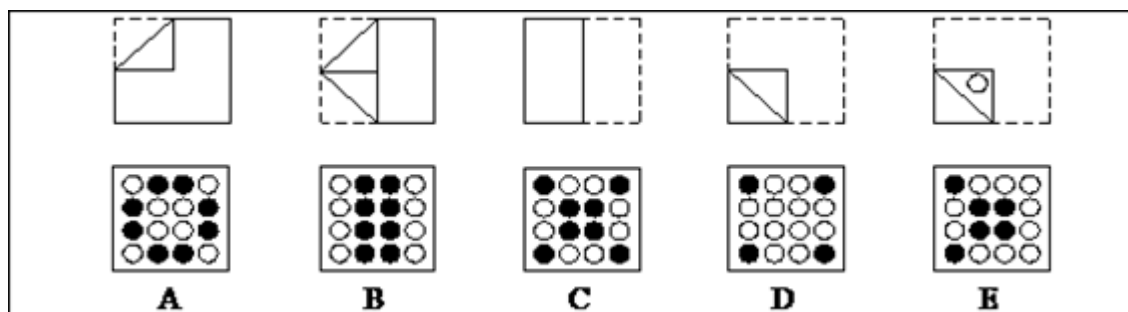


Which of the answer choices represents the orientation of the plane?

- A. A
- B. B
- C. C
- D. D

Answer: B

Question: 10



How will the holes appear when the paper is unfolded?

- A. A
- B. B
- C. C
- D. D
- E. E

Answer: E

Explanation:

The answer is E. The hole is punched through six layers of paper, so there will be six holes when the paper is fully unfolded. Based on this information, you can eliminate every answer choice except E.

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