

# Construction and Industry

*EEI-CAST  
Construction and Skilled Trades Selection System Test*

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## Question: 1

What is the area of one of the rectangular cutouts?

- A. 81 sq. in.
- B. 21 sq. in.
- C. 18 sq. in.
- D. 16 sq. in.

**Answer: C**

## Question: 2

What is the distance(C") between the two rectangular cutouts?

- A. 8"
- B. 7"
- C. 9"
- D. 7.5"
- E. N

**Answer: B**

## Question: 3

What is the diameter of the drilled holes?

- A. 2"
- B. 3"
- C. 4"
- D. 1"
- E. N

**Answer: A**

## Question: 4

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What is the distance (D") from the top of the panel to the top of the rectangular opening?

- A. 5"
- B. 9"
- C. 3"
- D. 6"
- E. N

**Answer: D**

### Question: 5

What is the distance ("E ) from the center of the top holes to the bottom of the panel?

- A. 21"
- B. 19"
- C. 18"
- D. 17"
- E. N

**Answer: C**

### Question: 6

What is the total perimeter of the panel?

- A. 72"
- B. 60"
- C. 62"
- D. 84"
- E. N

**Answer: A**

### Passage #1

A hydroelectric power plant uses the potential energy of water to generate electricity. These facilities must be located next to a large body of water, whether natural or man-made. The amount of energy that can be developed by the plant is directly proportional to the volume of water at the site, as well as the rate at which the water is allowed to flow through the plant. In a typical arrangement, the power plant is built atop or alongside a dam, through which water is permitted to flow at a controlled pace. This water flow spins turbines that are attached to alternators, which generate the electrical power. Hydroelectric power plants have many wonderful qualities relative to other plants.

They are very clean and are inexpensive to operate and maintain. Hydroelectric plants are also very reliable and can move from inaction to operation at full capacity in a matter of minutes. These plants can be operated with a great deal of precision, which promotes efficiency. Finally, hydroelectric plants are considered to be one of the most durable systems, which means that they maintain their efficiency throughout their lives. Unfortunately, hydroelectric power plants have specific demands that can be difficult to meet. They require a long area, and they cost a great deal of money to construct. They also tend to have long transmission lines, so they are subject to a number of inefficiencies. Perhaps the most negative aspect of a hydroelectric power plant is not associated with the plant itself, but with the large reservoir of water that must be alongside the plant. These reservoirs submerge huge amounts of land and can have devastating effects on wildlife and human settlements alike. Moreover, hydroelectric power plants are dependent on the water supply, so prolonged droughts can make it impossible for these facilities to operate. Clearly, hydroelectric power plants cannot be built just anywhere. The best sites for these plants are large lakes at high altitude, especially in areas that receive a great deal of rainfall. It is good for the land to be rocky, because this will make it better able to support the heavy equipment that must be used in construction and operation. Also, it is important for there to be adequate roads or rails to move all of this equipment. All of these requirements mean that only a few sites will be truly appropriate for a hydroelectric power plant.

### Question: 7

Which phrase from the passage best illustrates that a hydroelectric plant should be placed next to a large body of water?

- A. "The amount of energy that can be developed by the plant is directly proportional to the volume of water at the site."
- B. "These reservoirs submerge huge amounts of land and can have devastating effects on wildlife and human settlements alike."
- C. "In a typical arrangement, the power plant is built atop or alongside a dam, through which water is permitted to flow at a controlled pace."
- D. "Hydroelectric power plants are dependent on the water supply."

**Answer: A**

### Question: 8

In a hydroelectric power plant, what do the alternators do?

- A. cool the water
- B. generate the electrical power
- C. maintain efficiency
- D. spin the turbines

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**Answer: B**

**Question: 9**

Which of the following is NOT an advantage of hydroelectric power plants?

- A. They are clean
- B. They are inexpensive to operate
- C. They are durable
- D. They are inexpensive to construct

**Answer: D**

**Question: 10**

What does it mean in the second paragraph when it says that "Hydroelectric power plants have many wonderful qualities relative to other plants"?

- A. Hydroelectric power plants have many similarities with other plants.
- B. Hydroelectric power plants have many advantages over other plants,
- C. Hydroelectric power plants have many disadvantages compared to other plants.
- D. Hydroelectric power plants have many differences from other plants,

**Answer: B**

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