

Civil Engineering for Little Builders

Civil Engineering · Answer Key · 10 Questions

1. Which shape is used in bridge design to distribute weight effectively because it does not have corners that can easily break?

- A) Square
- B) Triangle**
- C) Rectangle
- D) Trapezoid

2. What is the main material used in 'reinforced concrete' to give it extra strength against pulling forces?

- A) Steel bars**
- B) Plastic straws
- C) Cotton rope
- D) Wood sticks

3. What do civil engineers call the part of a building that sits underground and keeps the structure from sinking?

- A) The Roof
- B) The Foundation**
- C) The Window
- D) The Chimney

4. Which type of bridge uses heavy cables attached to tall towers to hold up the road?

- A) Arch bridge
- B) Beam bridge
- C) Suspension bridge**
- D) Pontoon bridge

5. What do civil engineers build to help water travel from a reservoir to people's homes?

- A) Aqueducts**
- B) Tunnels
- C) Elevators
- D) Escalators

6. What is the name of the tall, heavy structure built to hold back water in a river?

- A) Dam**
- B) Wall
- C) Fence
- D) Pier

7. Which material is commonly used to pave roads because it is strong and can be poured while hot?

A) Glass

B) Asphalt

C) Sand

D) Paper

8. What do engineers use to measure how flat or level a surface is?

A) A magnifying glass

B) A spirit level

C) A thermometer

D) A scale

9. What is a 'geotechnical engineer' mainly responsible for studying?

A) The clouds

B) The stars

C) The soil and rocks

D) The ocean waves

10. Which machine is most commonly used by civil engineers to lift heavy materials to the top of skyscrapers?

A) Tower crane

B) Bicycle

C) Motorcycle

D) Lawn mower