



**2017 National Leadership and Skills Conference**  
**National Masonry Competition Knowledge Examination**

**READ BEFORE PROCEEDING**

- Any type of cheating will void test from overall score
- Be mindful of matching question number to the answer number on score sheet
- Any questions or concerns about an item: raise hand and obtain the attention of a Masonry committee representative – do not talk or discuss with other competitors



Test provided by  
The National Center for  
Construction Education and Research  
(NCCER)



## National Masonry Contest Exam 2017

Competitor Number: \_\_\_\_\_

Date: \_\_\_\_\_

**MULTIPLE CHOICE-** Choose the one answer that best completes the statement or answers the question.

- 1) In a powered mixer, the mortar ingredients are mixed by \_\_\_\_\_.
  - A. blades on a rotating horizontal shaft
  - B. a rotating drum
  - C. a vertical agitator
  - D. paddles on an oscillating shaft
  
- 2) A stretched mason's line is used to lay out masonry structures longer than \_\_\_\_\_.
  - A. 4 feet
  - B. 8 feet
  - C. 12 feet
  - D. 16 feet
  
- 3) Folding rules are preferred by masons because \_\_\_\_\_.
  - A. they can fit in a pocket
  - B. they are more accurate
  - C. they can easily be extended by one person
  - D. they can be replaced inexpensively
  
- 4) Jointing compresses mortar at the surface to provide \_\_\_\_\_.
  - A. increased strength
  - B. a polished surface
  - C. water protection
  - D. decreased surface area

- 5) If you add 3 feet, 9 inches to 1 foot, 5 inches, the total measurement is \_\_\_\_\_.
- A. 4 feet, 4 inches
  - B. 5 feet, 2 inches
  - C. 5 feet, 4 inches
  - D. 5 feet, 14 inches
- 6) Information not found on the drawings, but needed to complete the work, is contained in the \_\_\_\_\_.
- A. Standards
  - B. Specifications
  - C. Schedules
  - D. Codes
- 7) Mortar and masonry units form a bond that is basically \_\_\_\_\_.
- A. Frictional
  - B. Mechanical
  - C. Chemical
  - D. Positional
- 8) Flashing is used in masonry construction to \_\_\_\_\_.
- A. control expansion cracking
  - B. seal mortar joint surfaces
  - C. connect wythes in a cavity wall
  - D. allow moisture in a wall to exit through a weep system
- 9) Anchors used with brick veneers are attached to \_\_\_\_\_.
- A. wall sheathing
  - B. reinforcement bars
  - C. sill plates
  - D. structural backing

**10) OSHA specifies that scaffold must be 1 foot wide for each \_\_\_\_.**

- A. 2 feet of height
- B. 4 feet of height
- C. 5 feet of height
- D. D.10 feet of height

**11) A personal fall arrest system should be inspected monthly by a (n) \_\_\_\_.**

- A. co-worker
- B. state safety inspector
- C. project manager
- D. competent person

**12) When stacking materials such as bricks or block, do not stack materials beyond a \_\_\_\_.**

- A. 3:1 height-to-base ratio
- B. 4:1 height-to-base ratio
- C. 5:1 height-to-base ratio
- D. 10:1 height-to-base ratio

**13) Heat exhaustion differs from heat stroke in that \_\_\_\_.**

- A. the body temperature drops by several degrees
- B. a person is likely to lose consciousness
- C. the body temperature rises slightly
- D. body temperature rises rapidly

**14) One sheet of drywall weighs 48.7 pounds. If 50 sheets are ordered, the total weight of the order would be \_\_\_\_.**

- A. 2,532.0 pounds
- B. 2,435.0 pounds
- C. 2,430.0 pounds
- D. 243.5 pounds

**15) An inside measurement can be taken with a tape measure by \_\_\_\_\_.**

- A. adding the length of the tape measure case
- B. subtracting the length of the tape measure case
- C. removing the tape from the case
- D. adding the thickness of the tape hook

**16) The safest kind of utility knife is one with a \_\_\_\_\_.**

- A. retractable blade
- B. replaceable blade
- C. folding blade
- D. self-retracting blade

**17) Plans used for work that has to do with construction in or on the earth are called \_\_\_\_\_.**

- A. civil plans
- B. architectural renderings
- C. structural foundations
- D. exterior views

**18) A dimension is a measurement written as a \_\_\_\_\_.**

- A. range
- B. number
- C. letter
- D. symbol

**19) Common documents that construction professionals need to read on the job include \_\_\_\_\_.**

- A. construction drawings, code books, and installation manuals
- B. legal briefs, permits, and subpoenas
- C. contracts, warrants, and encyclopedias
- D. literary reviews, argumentation papers, and essays

20) When preparing a resume, you should \_\_\_\_\_.

- A. use a font that is very creative and expressive
- B. format the information chronologically
- C. avoid any use of bulleted lists
- D. not mention any certifications until an interview begins



**KEY**

Competitor Number: \_\_\_\_\_ 2017 SkillsUSA National Masonry Competition Exam

1.)     A    

11.)     D    

2.)     A    

12.)     B    

3.)     C    

13.)     C    

4.)     C    

14.)     B    

5.)     B    

15.)     A    

6.)     B    

16.)     D    

7.)     B    

17.)     A    

8.)     D    

18.)     B    

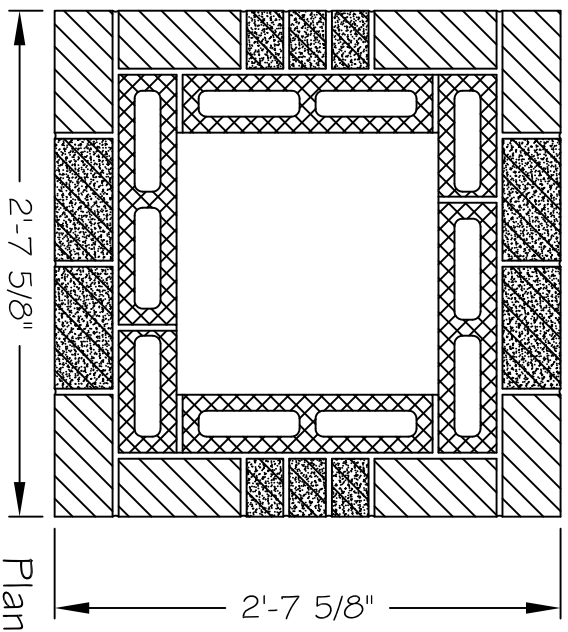
9.)     D    

19.)     A    

10.)    B   

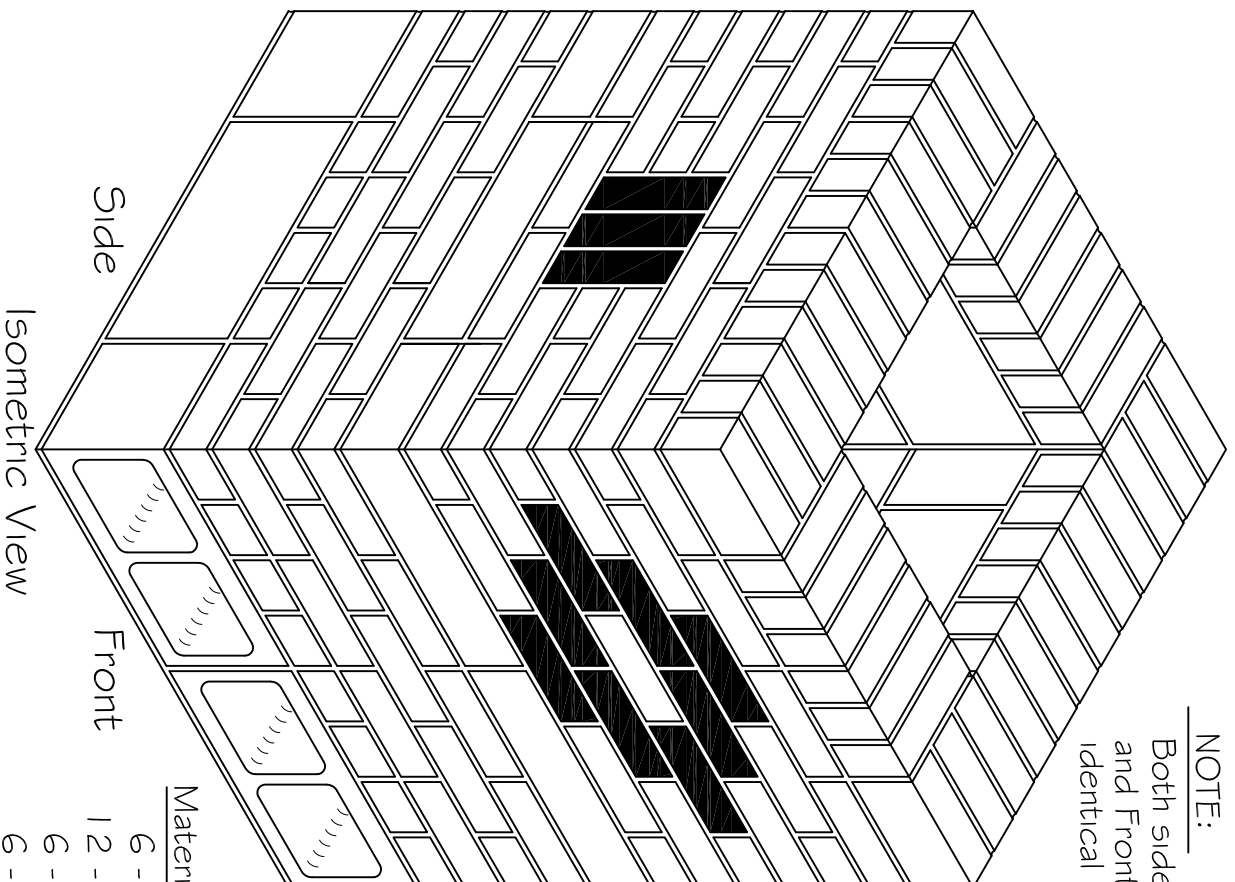
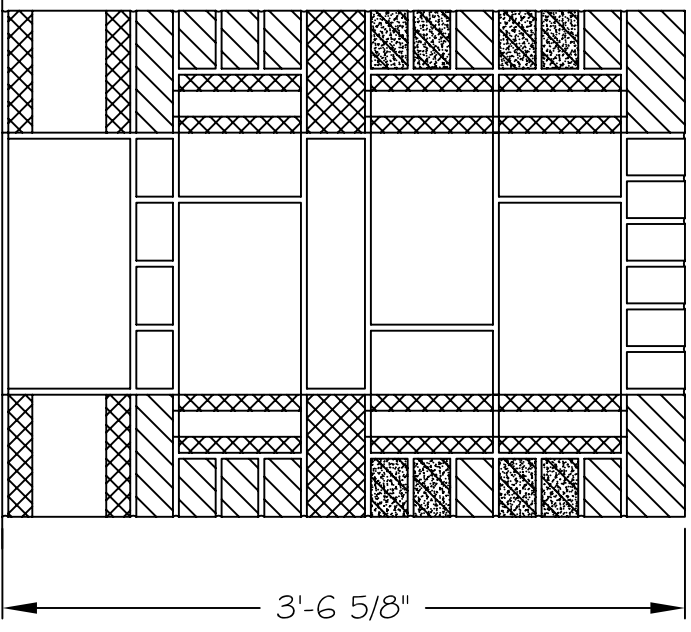
20.)    B   

Score: \_\_\_\_\_



Plan

Section



Side  
Front  
Isometric View

NOTE:  
Both sides are identical  
and Front & Back are  
identical

Materials:

- 6 - 8" CMU
- 12 - 4" CMU
- 6 - 4" CMU Halves
- 6 - 4" CMU Uncored
- 160 - Type A Mod. Brick
- 22 - Type B Mod. Brick
- 4 - Type A Uncored  
Modular Brick