

ACI FIELD TESTING TECHNICIAN GRADE 1

DENSITY

1. _____ is the ratio of the volume of concrete produced to the target volume.
2. Rodding is the required method of consolidation if the slump of the concrete exceeds _____ inches.
3. The capacity of the container used for this test is determined by _____ .
4. Yield is the amount of concrete produced from mixing known quantities of materials.
True or False (circle one)
5. After the final consolidation, the ideal amount of concrete above the rim of the container is _____ inch(es).
6. If concrete well in excess of question six exists you should _____ .
7. To strike off either a plate or bar of correct dimension may be used. True or False (circle one)
8.

Mass of empty container	:	20 lbs.
Mass of full container	:	80 lbs.
Volume of container	:	0.45 cf

The numerical equation to find the density using the above test results is

_____ .

9.

density	:	140
mass of all material batched	:	30,000 lbs.

The numerical equation to find the yield *in cubic yards* of the above batch of concrete is _____ .

(Continued on Reverse Side)

10. Air content can be determined by subtracting the actual density from the theoretical and then dividing this by the actual. True or False (circle one)

END OF EXAM