

Chapter 1 Basic Mathematical Procedures

Blueprints & Plans for HVAC (Fourth Edition)

TRUE/FALSE

1. The formula for the area of a circle is $A = \pi \times r^2$

ANS: T PTS: 1 REF: Math

2. The formula for the area of a circle is $C = \pi \times D$

ANS: T PTS: 1 REF: Math

MULTIPLE CHOICE

1. Area of a square that with a dimension of 25".
- | | |
|---------|---------|
| a. 250" | c. 520" |
| b. 625" | d. 25" |

ANS: B
b

PTS: 1 REF: Area

2. Find the circumference of a circle with a diameter of 12 inches
- | | |
|-----------|-----------|
| a. 37.68" | c. 24.12" |
| b. 12.21" | d. 36.14" |

ANS: A PTS: 1 REF: Circle

3. Find the volume of a round tank with a 12" diameter and 12" height
- | | |
|--------|---------|
| a. 144 | c. 1357 |
| b. 452 | d. 5426 |

ANS: C PTS: 1 REF: Volume

NUMERIC RESPONSE

1. $754 + 67 =$

ANS: 821

PTS: 1 REF: Math

2. $4567 + 7654 =$

ANS: 12221

PTS: 1 REF: Math

3. $7654 - 4567 =$

ANS: 3087

PTS: 1

REF: Math

4. $525 - 25 =$

ANS: 500

PTS: 1

REF: Math

5. $345 \times 25.4 =$

ANS: 8763

PTS: 1

REF: Math

6. $500 \div 25 =$

ANS: 20

PTS: 1

REF: Math

7. $825 \div 25.4 =$

ANS: 32.48

PTS: 1

REF: Math

8. $2896 \div 326 =$

ANS: 8.88

PTS: 1

REF: Math

9. $1\frac{1}{2} + 2\frac{2}{3} =$

ANS: 1.17

PTS: 1

REF: Math

10. $1\frac{1}{2} \times 1\frac{1}{2} =$

ANS: .25

PTS: 1

REF: Math