

### 8.1.1 Measuring Distance, Area, and Perimeter

What is the width of the stairs?

- |          |          |
|----------|----------|
| a. 2'-6" | c. 3'-0" |
| b. 2'-9" | d. 3'-6" |

What is the overall width of the house? This will be displayed as Delta X in the Command line.

- |           |           |
|-----------|-----------|
| a. 68'-6" | c. 69'-0" |
| b. 68'-0" | d. 67'-6" |

What are the dimensions of the garage? This will be displayed as Delta X and Delta Y in the Command line.

- |                    |                    |
|--------------------|--------------------|
| a. 23'-0" x 24'-3" | c. 24'-6" x 25'-9" |
| b. 26'-4" x 28'-0" | d. 27'-2" x 29'-0" |

What is the area of the master bedroom in square feet?

- |             |             |
|-------------|-------------|
| a. 171.2500 | c. 168.8750 |
| b. 169.9275 | d. 170.4375 |

What is the perimeter of the bedroom?

- |           |           |
|-----------|-----------|
| a. 46'-3" | c. 48'-2" |
| b. 47'-3" | d. 47'-6" |

What is the overall area of the house in square feet?

- |              |              |
|--------------|--------------|
| a. 1929.3750 | c. 1717.3110 |
| b. 2021.2685 | d. 2010.5585 |

### 8.1.2 Measuring Distance, Radius, Area, and Angle

What is the distance between the two center points?

- a. 4.750
- c. 5.100
- b. 5.250**
- d. 5.350

What are the X,Y coordinates of the center of the largest circle?

- a. 3.125, 4.375**
- c. 3.000, 4.000
- b. 3.100, 4.300
- d. 4.750, 3.250

What is the radius of the largest circle?

- a. 1.000
- c. 1.250
- b. 2.500
- d. 1.300**

What is the area of the largest circle?

- a. 5.309**
- c. 3.509
- b. 5.000
- d. 4.809

What is the area of the outer shape?

- a. 13.145
- c. 13.000
- b. 14.639
- d. 13.964**

What is the total area displayed in the Command line?

- a. 13.964
- c. 11.347
- b. 8.262**
- d. 9.421

What is the angle in degrees between the two lines?

- a. 47
- c. 57**
- b. 52
- d. 49

What is the angle in degrees between the two lines?

- a. 56.922
- c. 57.339
- b. 56.874**
- d. 57.227

### 8.1.3 Measuring Angles

What is the angle in degrees between the two small holes?

- a. 34
- b. 35
- c. **36**
- d. 37

What is the angle in degrees between the two small holes?

- a. **24**
- b. 25
- c. 26
- d. 27

### 8.1.4 Measuring with the Quick Measure Tool

What is the width of the building?

- a. 13'-0"
- b. **13'-4"**
- c. 13'-6"
- d. 13'-8"

What is the height of the walls?

- a. 7'-0"
- b. 7'-6"
- c. **8'-0"**
- d. 8'-6"

What is the angle in degrees that is formed between the wall and roof?

- a. **126.87**
- b. 128.99
- c. 131.27
- d. 133.12

What is the length of the roof line?

- a. 9'-2"
- b. 9'-2 1/2"
- c. 9'-3"
- d. **9'-4 1/2"**

### 8.1.5 Measuring Commands Challenge Exercise

What is the length of dimension A?

- a. **4.50**
- b. 4.25
- c. 4.00
- d. 3.75

What is the length of dimension B?

- a. 2.50
- b. 2.75
- c. **3.00**
- d. 3.25

What is the diameter of the hole labeled C?

- a. .73
- b. .74
- c. .75
- d. **.76**

What is the circumference of the circle labeled D?

- a. 4.6229
- b. 4.9902
- c. 4.8655
- d. **4.7124**

What is the radius of the circle labeled E?

- a. **.75**
- b. .80
- c. .70
- d. .72

What is the angle represented by label F to the nearest degree?

- a. 58°
- b. **60°**
- c. 62°
- d. 65°

What is the angle represented by label G to the nearest degree?

- a. 60°
- b. 65°
- c. **68°**
- d. 66°

What are the X,Y coordinates of the center of the circle labeled C?

- a. 4.00, 9.00
- b. **4.25, 9.20**
- c. 3.75, 8.60
- d. 4.10, 9.10

What are the X,Y coordinates of the center of the circle labeled E?

- a. **9.95, 5.00**
- b. 5.00, 9.95
- c. 8.95, 4.80
- d. 9.80, 4.75

What is the surface area of the shaded area shown to the right?

- |          |                  |
|----------|------------------|
| a. 1.761 | <b>c. 1.2467</b> |
| b. .5204 | d. 2.5573        |

### 8.2.1 Viewing and Modifying Object Properties

What is the length of the line?

- |         |                |
|---------|----------------|
| a. 2.30 | <b>c. 3.30</b> |
| b. 3.25 | d. 2.35        |

What is the radius of the circle?

- |                |         |
|----------------|---------|
| <b>a. 0.50</b> | c. 0.70 |
| b. 0.60        | d. 0.75 |

What are the X,Y coordinates of the center of the circle?

- |                      |               |
|----------------------|---------------|
| a. 4.25, 4.75        | c. 5.00, 4.00 |
| <b>b. 5.75, 6.00</b> | d. 4.75, 3.25 |