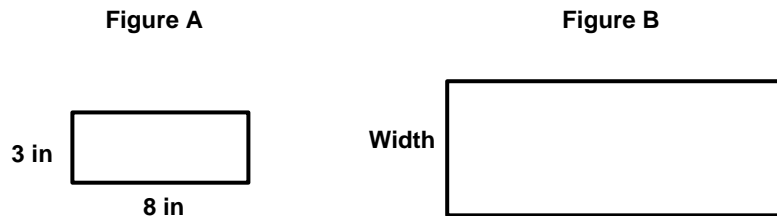


# 8<sup>th</sup> Grade Geometry: Fall Progress

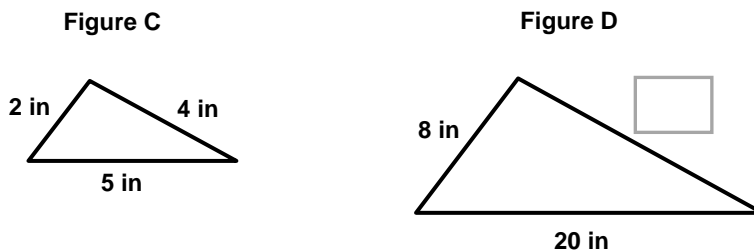
Questions 1-3: Select the correct answer for each question.

1. Figure B is a scaled drawing of figure A with a scale factor of 5. Find the width for figure B.



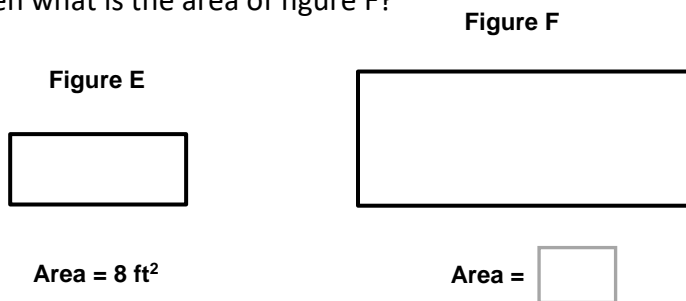
- 24in     
  40 in     
  13 in     
  15 in

2. Figure D is a scaled drawing of figure C. Find the missing length in figure D.



- 4 in     
  1 in     
  16 in     
  8 in

3. Figure F is a scaled drawing of figure E with a scale factor of 3. If the area of Figure E is  $8 \text{ ft}^2$ , then what is the area of figure F?



- $17 \text{ ft}^2$      
   $72 \text{ ft}^2$      
   $24 \text{ ft}^2$      
   $11 \text{ ft}^2$



Please stop, put your pencil down and wait for the next directions.



# 8<sup>th</sup> Grade Geometry Progress: Fall

(continued)

**Questions 4-6:** Select the correct answer for each question.

**4.** Which set of dimensions can be 3 sides of a triangle?

- 6 in, 7 in, and 14 in
- 6 in, 7 in, and 13 in
- 6 in, 8 in, and 14 in
- 6 in, 8 in, and 13 in

**5.** Two dimensions of a triangle are 4 in and 8 in. Select the length that is possible for the third side of the triangle?

- 4 in
- 12 in
- 3 in
- 10 in

**6.** Two angle measures of a triangle are 40 and 95 degrees. Select the measurement that is possible for the third angle of the triangle?

- 35 degrees
- 135 degrees
- 55 degrees
- 45 degrees

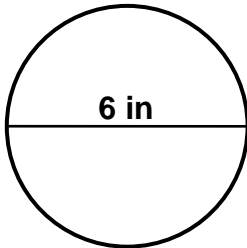


Please stop, put your pencil down and wait for the next directions.

**Questions 7-9:** Select the correct number and label for each question.

**7.** Find the circumference of the circle. (Use 3.14 for  $\pi$ .)

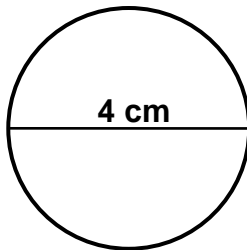
(Note: The figure is not drawn to scale.)



- |                            |                                       |                                       |                             |
|----------------------------|---------------------------------------|---------------------------------------|-----------------------------|
| <input type="radio"/> 37.7 | <input type="radio"/> 113.1           | <input type="radio"/> 18.85           | <input type="radio"/> 226.2 |
| <input type="radio"/> in   | <input type="radio"/> in <sup>2</sup> | <input type="radio"/> in <sup>3</sup> |                             |

**8.** Find the area of the circle. (Use 3.14 for  $\pi$ .)

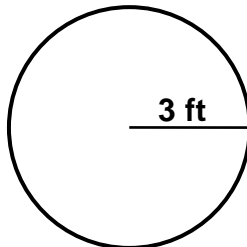
(Note: The figure is not drawn to scale.)



- |                                       |                             |                                       |                             |
|---------------------------------------|-----------------------------|---------------------------------------|-----------------------------|
| <input type="radio"/> 50.24           | <input type="radio"/> 25.12 | <input type="radio"/> 100.48          | <input type="radio"/> 12.56 |
| <input type="radio"/> cm <sup>2</sup> | <input type="radio"/> cm    | <input type="radio"/> cm <sup>3</sup> |                             |

**9.** Find the area of the circle. (Use 3.14 for  $\pi$ .)

(Note: The figure is not drawn to scale.)



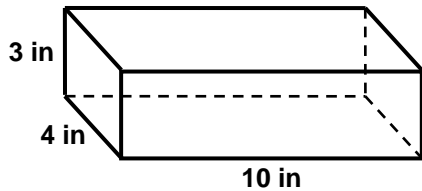
- |                                       |                                       |                             |                              |
|---------------------------------------|---------------------------------------|-----------------------------|------------------------------|
| <input type="radio"/> 37.68           | <input type="radio"/> 28.26           | <input type="radio"/> 18.84 | <input type="radio"/> 113.04 |
| <input type="radio"/> ft <sup>3</sup> | <input type="radio"/> ft <sup>2</sup> | <input type="radio"/> ft    |                              |



Please stop, put your pencil down and wait for the next directions.

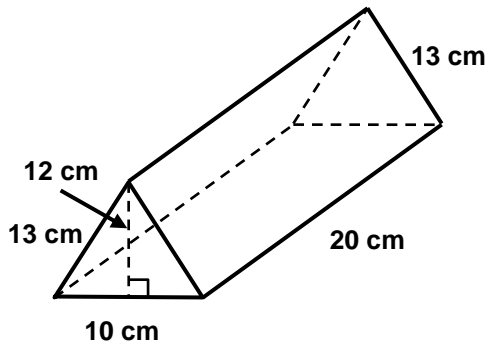
Questions 10-12: Select the correct number and label for each question.

**10.** Find the surface area of the right prism. *(Note: The figure is not drawn to scale.)*



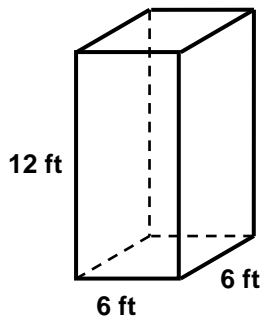
- |                           |                                       |                                       |                           |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 104 | <input type="radio"/> 152             | <input type="radio"/> 120             | <input type="radio"/> 164 |
| <input type="radio"/> in  | <input type="radio"/> in <sup>2</sup> | <input type="radio"/> in <sup>3</sup> |                           |

**11.** Find the surface area of the right prism. *(Note: The figure is not drawn to scale.)*



- |                                       |                           |                                       |                             |
|---------------------------------------|---------------------------|---------------------------------------|-----------------------------|
| <input type="radio"/> 720             | <input type="radio"/> 840 | <input type="radio"/> 780             | <input type="radio"/> 1,200 |
| <input type="radio"/> cm <sup>2</sup> | <input type="radio"/> cm  | <input type="radio"/> cm <sup>3</sup> |                             |

**12.** Find the surface area of the right prism. *(Note: The figure is not drawn to scale.)*



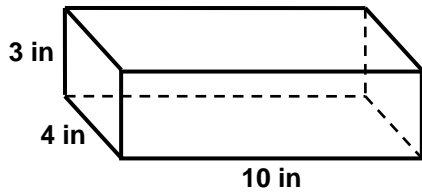
- |                                       |                                       |                           |                           |
|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| <input type="radio"/> 324             | <input type="radio"/> 432             | <input type="radio"/> 360 | <input type="radio"/> 288 |
| <input type="radio"/> ft <sup>3</sup> | <input type="radio"/> ft <sup>2</sup> | <input type="radio"/> ft  |                           |



Please stop, put your pencil down and wait for the next directions.

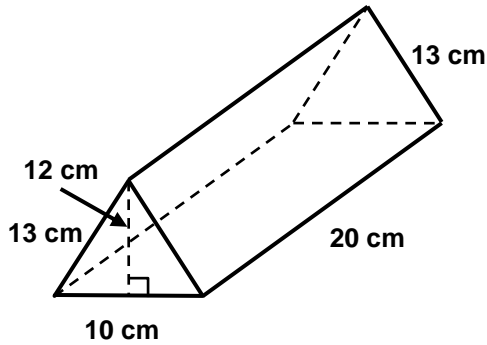
**Questions 13-15:** Select the correct number and label for each question.

**13.** Find the volume of the right prism. *(Note: The figure is not drawn to scale.)*



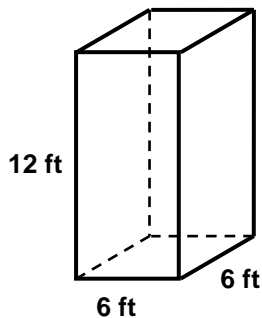
- |                           |                                       |                                       |                           |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 104 | <input type="radio"/> 152             | <input type="radio"/> 120             | <input type="radio"/> 164 |
| <input type="radio"/> in  | <input type="radio"/> in <sup>2</sup> | <input type="radio"/> in <sup>3</sup> |                           |

**14.** Find the volume of the right prism. *(Note: The figure is not drawn to scale.)*



- |                                       |                           |                                       |                             |
|---------------------------------------|---------------------------|---------------------------------------|-----------------------------|
| <input type="radio"/> 720             | <input type="radio"/> 840 | <input type="radio"/> 780             | <input type="radio"/> 1,200 |
| <input type="radio"/> cm <sup>2</sup> | <input type="radio"/> cm  | <input type="radio"/> cm <sup>3</sup> |                             |

**15.** Find the volume of the right prism. *(Note: The figure is not drawn to scale.)*



- |                                       |                                       |                           |                           |
|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| <input type="radio"/> 324             | <input type="radio"/> 432             | <input type="radio"/> 360 | <input type="radio"/> 288 |
| <input type="radio"/> ft <sup>3</sup> | <input type="radio"/> ft <sup>2</sup> | <input type="radio"/> ft  |                           |



Please stop, put your pencil down and wait for the next directions.