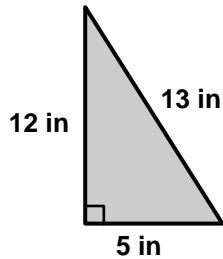


# 7<sup>th</sup> Grade Geometry Readiness: Winter Screener

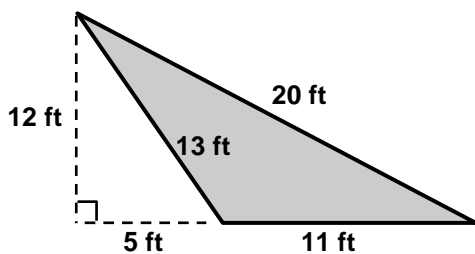
Questions 1-3: Select the correct number and label for each question.

1. Find the area of the triangle. (Note: The figure is not drawn to scale.)



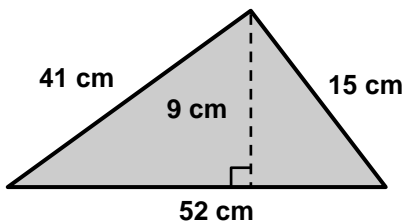
- 32.5       30       60       15  
 in       in<sup>3</sup>       in<sup>2</sup>

2. Find the area of the shaded triangle. (Note: The figure is not drawn to scale.)



- 104       66       110       44  
 ft<sup>3</sup>       ft<sup>2</sup>       ft

3. Find the area of the shaded triangle. (Note: The figure is not drawn to scale.)



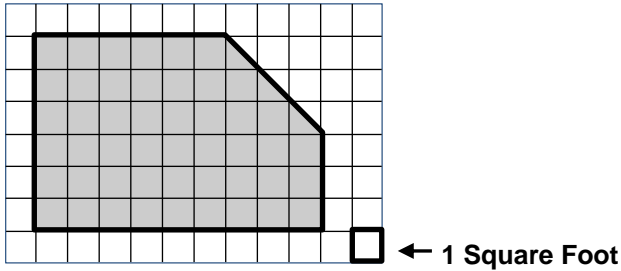
- 468       390       108       234  
 cm<sup>2</sup>       cm       cm<sup>3</sup>



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

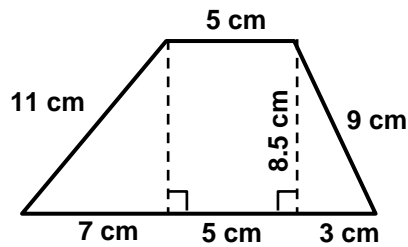
Questions 4-6: Select the correct number and label for each question.

4. Find the area of the shaded polygon. (Note: The figure is not drawn to scale.)



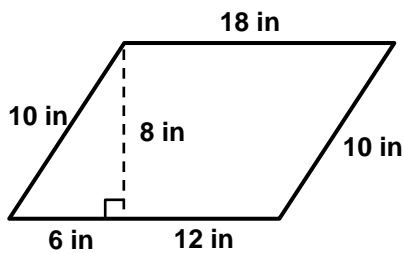
- 40.5       45       49.5       54  
 ft<sup>3</sup>       ft<sup>2</sup>       ft

5. Find the area of the trapezoid. (Note: The figure is not drawn to scale.)



- 45       85       90       110  
 cm<sup>2</sup>       cm       cm<sup>3</sup>

6. Find the area of the parallelogram. (Note: The figure is not drawn to scale.)




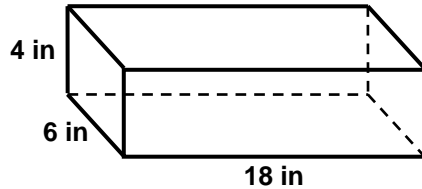
- 72       180       56       144  
 in       in<sup>2</sup>       in<sup>3</sup>



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

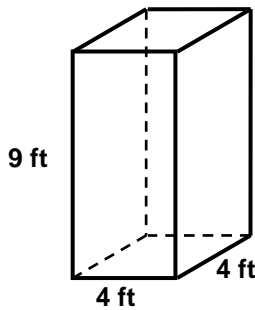
**Questions 7-9:** Select the correct number and label for each question.

**7.** What is the maximum number of 1-inch cubes  that can fit inside the right prism?  
*(Note: The figure is not drawn to scale.)*



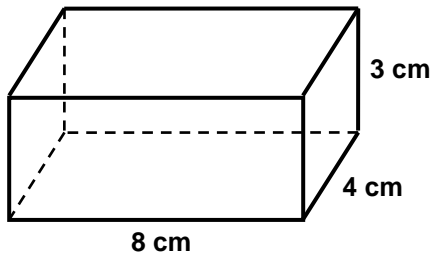
- 432 cubes     
  408 cubes     
  360 cubes     
  192 cubes

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



- 176     
  144     
  104     
  17  
 ft<sup>3</sup>     
  ft<sup>2</sup>     
  ft

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



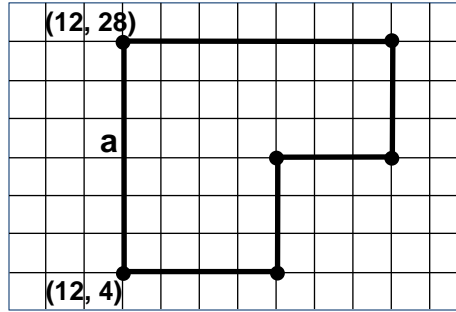
- 72     
  112     
  176     
  96  
 cm<sup>2</sup>     
  cm     
  cm<sup>3</sup>



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

Questions 10-12: Select the correct answer for each question.

10. Find the length of side a.



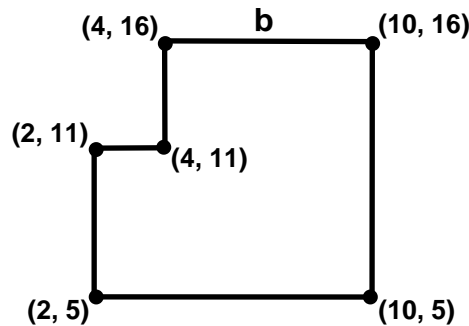
6

24

28

32

11. Find the length of side b.



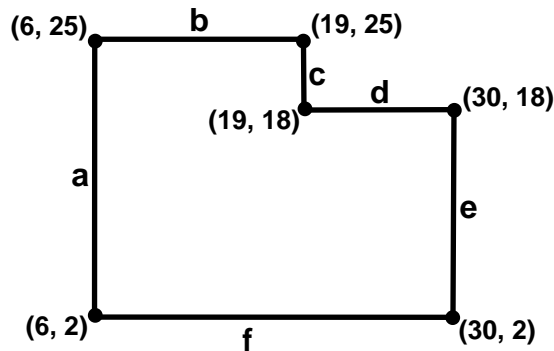
4

6

10

16

12. Find the length of side c.



6

7


17

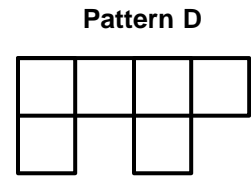
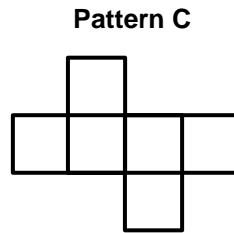
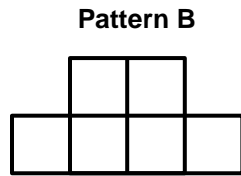
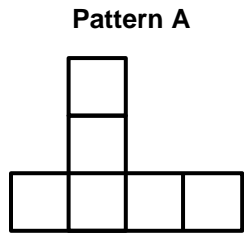
18



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

Questions 13-15: Select the correct answer for each question.

13. Which pattern could be folded into a cube? 



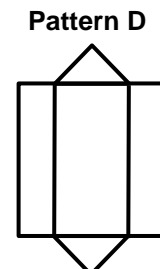
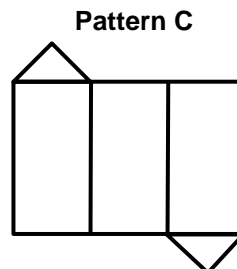
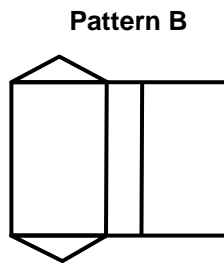
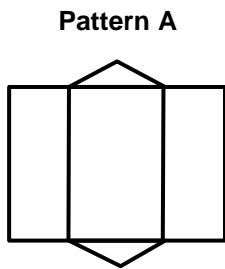
A

B

C

D

14. Which patterns could be folded into a right triangular prism? 

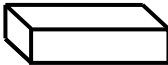


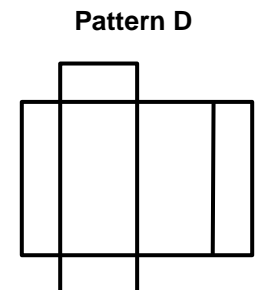
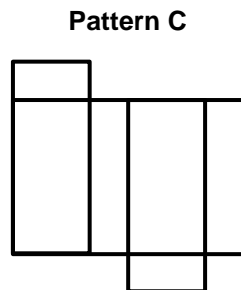
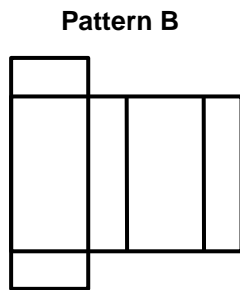
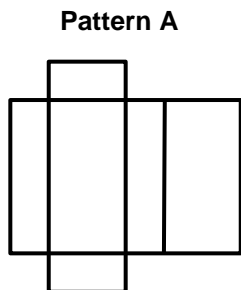
Pattern A

Pattern B

Pattern C

Pattern D

15. Which pattern could not fold into a right rectangular prism? 



Pattern A

Pattern B

Pattern C

Pattern D



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