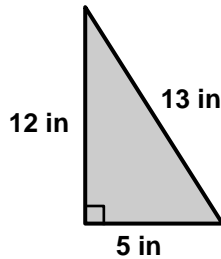


7th Grade Geometry Readiness: Winter Screener

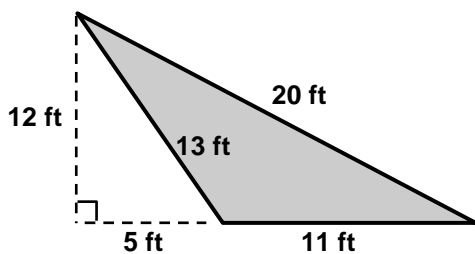
Questions 1-3: Select the correct number and label for each question.

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



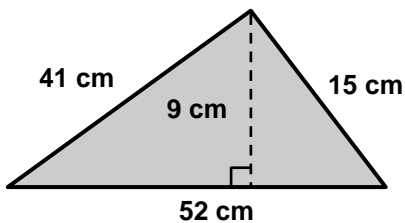
- 32.5 30 60 15
 in in³ in²

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



- 104 66 110 44
 ft³ ft² ft

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



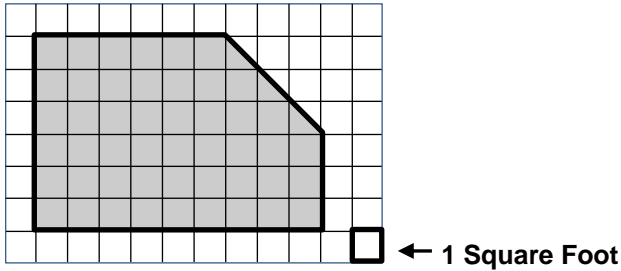
- 468 390 108 234
 cm² cm cm³



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

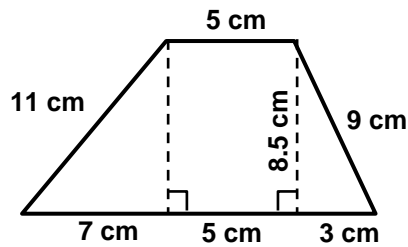
Questions 4-6: Select the correct number and label for each question.

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



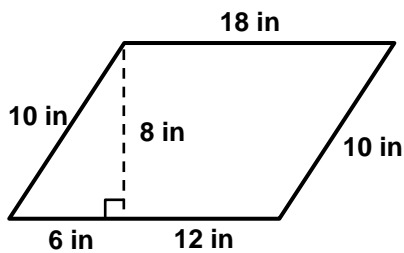
- | | | | |
|---------------------------------------|---------------------------------------|----------------------------|--------------------------|
| <input type="radio"/> 40.5 | <input type="radio"/> 45 | <input type="radio"/> 49.5 | <input type="radio"/> 54 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |

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



- | | | | |
|---------------------------------------|--------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 45 | <input type="radio"/> 85 | <input type="radio"/> 90 | <input type="radio"/> 110 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |

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




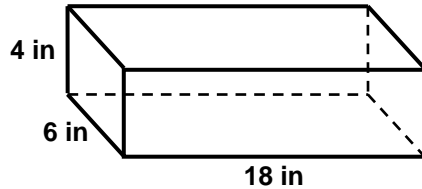
- | | | | |
|--------------------------|---------------------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 72 | <input type="radio"/> 180 | <input type="radio"/> 56 | <input type="radio"/> 144 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |



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

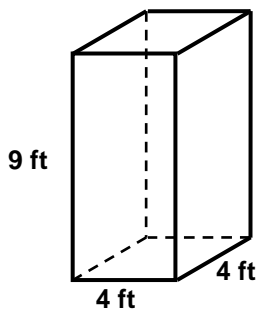
Questions 7-9: Select the correct number and label for each question.

- 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.)



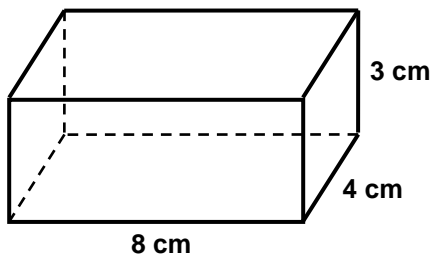
- 432 cubes
 408 cubes
 360 cubes
 192 cubes

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



- 176
 144
 104
 17
 ft³
 ft²
 ft

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



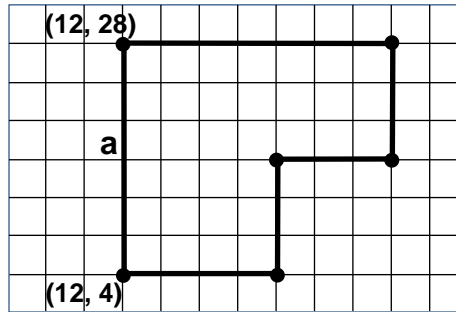
- 72
 112
 176
 96
 cm²
 cm
 cm³



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

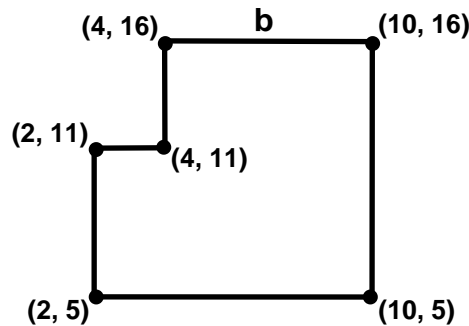
Questions 10-12: Select the correct answer for each question.

10. Find the length of side a.



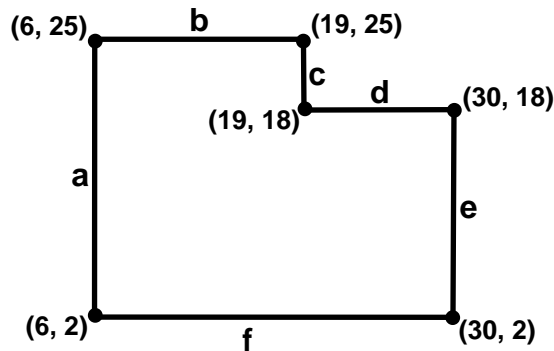
- 6
 24
 28
 32

11. Find the length of side b.



- 4
 6
 10
 16

12. Find the length of side c.



- 6
 7
 17
 18



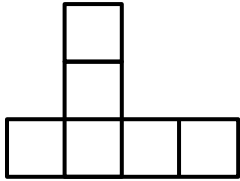
Please stop, put your pencil down and wait for the next directions.

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

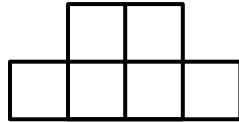
13. Which pattern can be folded into a cube?



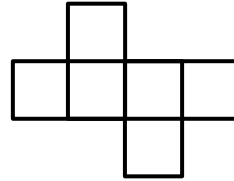
Pattern A



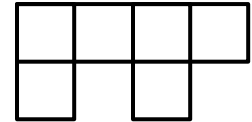
Pattern B



Pattern C



Pattern D



A

B

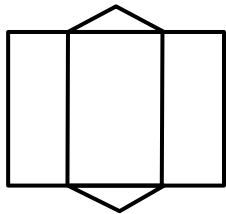
C

D

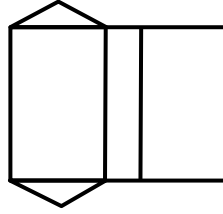
14. Which pattern can be folded into a right triangular prism?



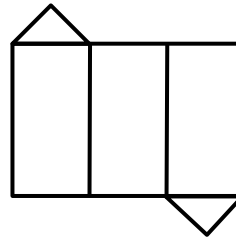
Pattern A



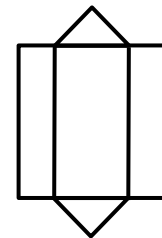
Pattern B



Pattern C



Pattern D



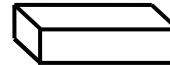
Pattern A

Pattern B

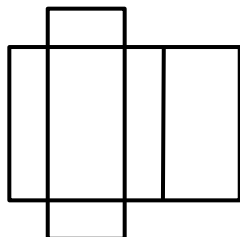
Pattern C

Pattern D

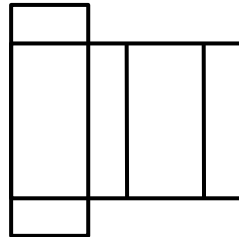
15. Which pattern can not fold into a right rectangular prism?



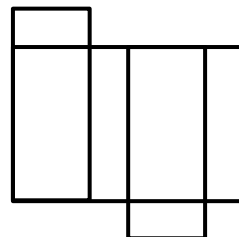
Pattern A



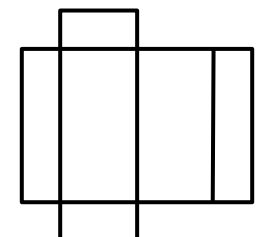
Pattern B



Pattern C



Pattern D



Pattern A

Pattern B

Pattern C

Pattern D



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