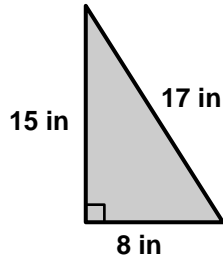


7th Grade Geometry Readiness: Fall Screener

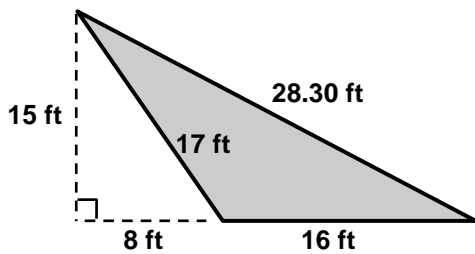
Questions 1-3: Select the correct number and label for each question.

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



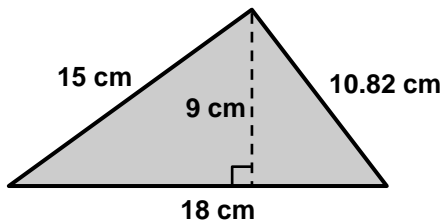
- | | | | |
|--------------------------|---------------------------------------|---------------------------------------|--------------------------|
| <input type="radio"/> 68 | <input type="radio"/> 60 | <input type="radio"/> 120 | <input type="radio"/> 40 |
| <input type="radio"/> in | <input type="radio"/> in ³ | <input type="radio"/> in ² | |

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



- | | | | |
|---------------------------------------|---------------------------------------|-----------------------------|-----------------------------|
| <input type="radio"/> 120 | <input type="radio"/> 180 | <input type="radio"/> 61.30 | <input type="radio"/> 63.75 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |

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



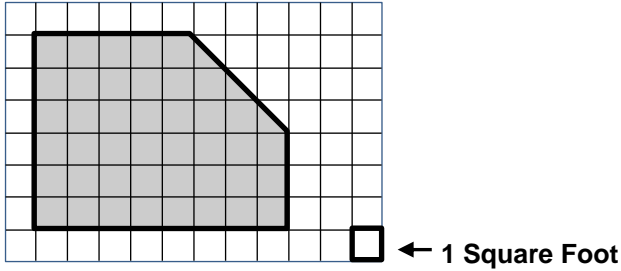
- | | | | |
|---------------------------------------|-----------------------------|---------------------------------------|--------------------------|
| <input type="radio"/> 162 | <input type="radio"/> 43.82 | <input type="radio"/> 54 | <input type="radio"/> 81 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |



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

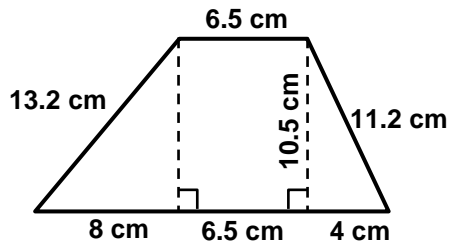
Questions 4-6: Select the correct number and label for each question.

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



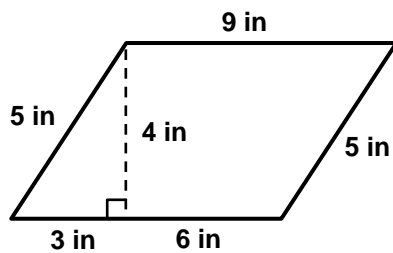
- | | | | |
|---------------------------------------|---------------------------------------|----------------------------|--------------------------|
| <input type="radio"/> 43.5 | <input type="radio"/> 48 | <input type="radio"/> 44.5 | <input type="radio"/> 45 |
| <input type="radio"/> ft ³ | <input 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"/> 49.4 | <input type="radio"/> 131.25 | <input type="radio"/> 140 | <input type="radio"/> 165 |
| <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.)*




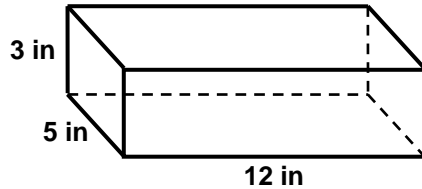
- | | | | |
|--------------------------|---------------------------------------|---------------------------------------|--------------------------|
| <input type="radio"/> 45 | <input type="radio"/> 18 | <input type="radio"/> 28 | <input type="radio"/> 36 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |



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

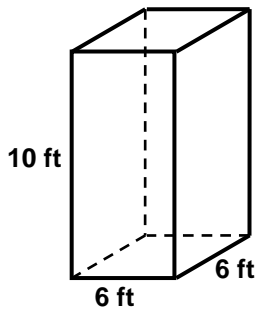
Questions 7-9: Select the correct number and label for each question.

- 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.)



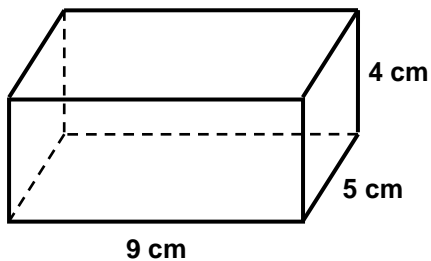
- 180 cubes
 192 cubes
 102 cubes
 222 cubes

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



- 240
 360
 312
 22
 ft³
 ft²
 ft

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



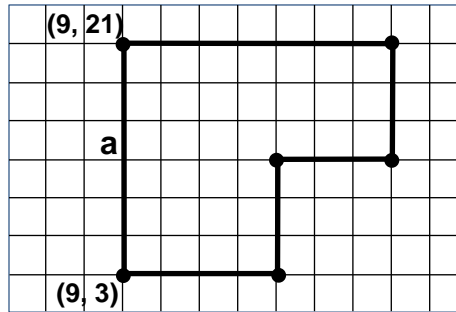
- 18
 122
 202
 180
 cm²
 cm
 cm³



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

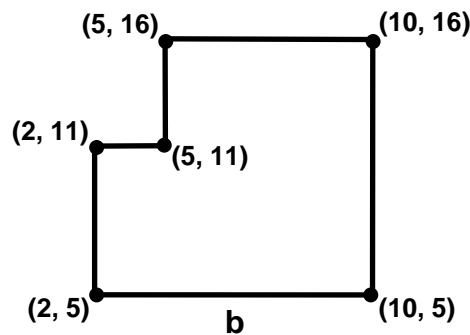
Questions 10-12: Select the correct answer for each question.

10. Find the length of side a.



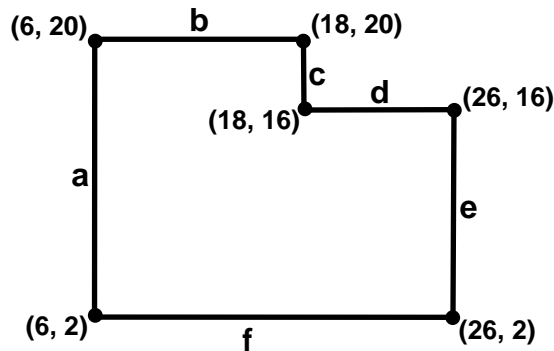
- 6
 18
 21
 24

11. Find the length of side b.



- 8
 12
 10
 5

12. Find the length of side c.



- 12
 4
 2
 8



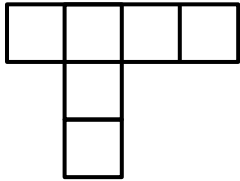
Please stop, put your pencil down and wait for the next directions.

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

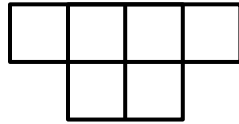
13. Which pattern can be folded into a cube?



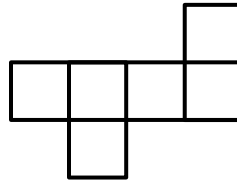
Pattern A



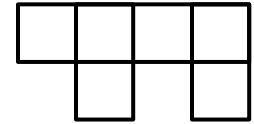
Pattern B



Pattern C



Pattern D



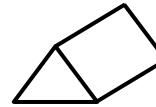
A

B

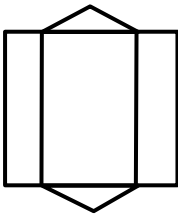
C

D

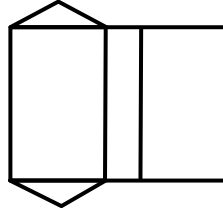
14. Which pattern can be folded into a right triangular prism?



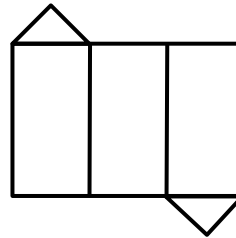
Pattern A



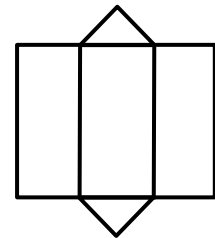
Pattern B



Pattern C



Pattern D



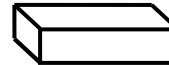
Pattern A

Pattern B

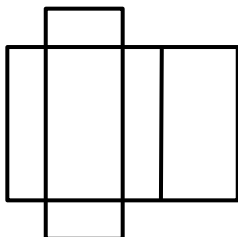
Pattern C

Pattern D

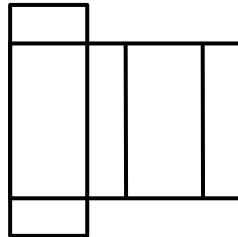
15. Which pattern can not fold into a right rectangular prism?



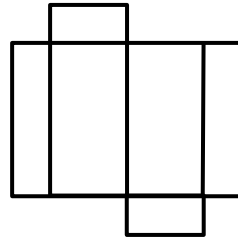
Pattern A



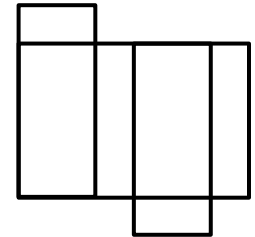
Pattern B



Pattern C



Pattern D



Pattern A

Pattern B

Pattern C

Pattern D



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