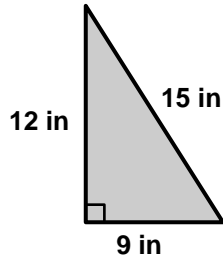# 7th Grade Geometry Progress: Winter
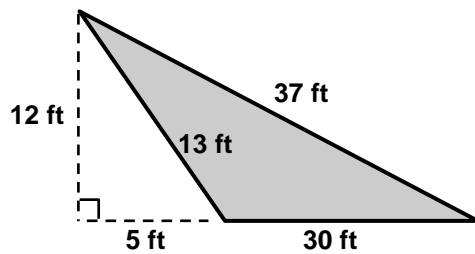
Questions 1-3: Select the correct number and label for each question.

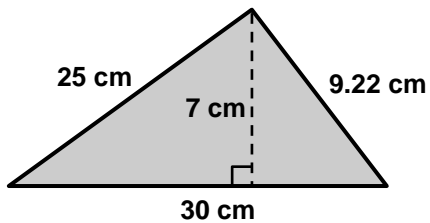**1.** Find the area of the triangle. *(Note: The figure is not drawn to scale.)*

12 in
15 in
9 in

○ 108   ○ 36   ○ 67.5   ○ 54

○ in   ○ in^3 ○ in^2

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

12 ft
37 ft
13 ft
5 ft   30 ft

○ 195   ○ 180   ○ 210   ○ 80

○ ft^3 ○ ft^2 ○ ft

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

25 cm   9.22 cm
7 cm
30 cm

○ 210   ○ 138.3   ○ 105   ○ 64.22

○ cm^2 ○ cm   ○ cm^3

STOP

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

Number Correct = _____

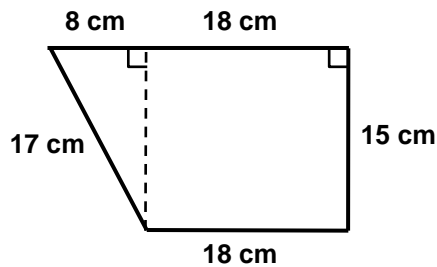**Questions 4-6:** Select the correct number and label for each question.

4. Find the area of the shaded polygon.
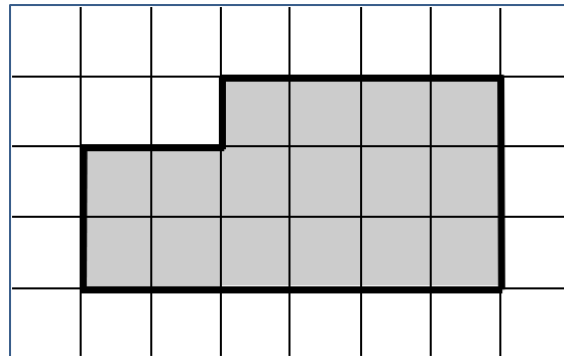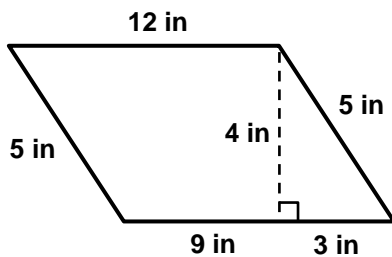
○ 18   ○ 16   ○ 22   ○ 12

○ Units   ○ Squared Units   ○ Cubed Units

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

8 cm   18 cm

17 cm

15 cm

18 cm

○ 270   ○ 390   ○ 374   ○ 330

○ cm^2 ○ cm   ○ cm^3

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

12 in

5 in

4 in   5 in

9 in   3 in

○ 48   ○ 60   ○ 24   ○ 30

○ in   ○ in^2 ○ in^3

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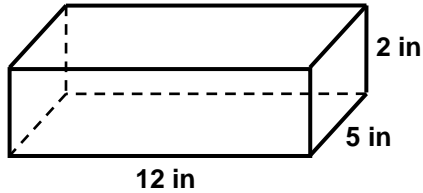
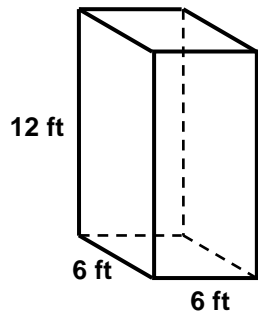Please stop, put your pencil down and wait for the next directions.

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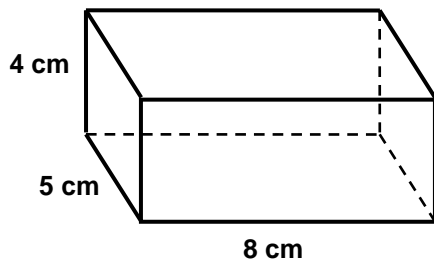*(Note: The figure is not drawn to scale.)*

2 in
5 in
12 in

○ 188 cubes   ○ 120 cubes   ○ 168 cubes   ○ 68 cubes

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

12 ft
6 ft
6 ft

○ 432   ○ 360   ○ 216   ○ 288

○ ft³   ○ ft²   ○ ft

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

4 cm
5 cm
8 cm

○ 104   ○ 144   ○ 160   ○ 184

○ cm²   ○ cm   ○ cm³

STOP

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

(continued)

Questions 10-12: Select the correct answer for each question.
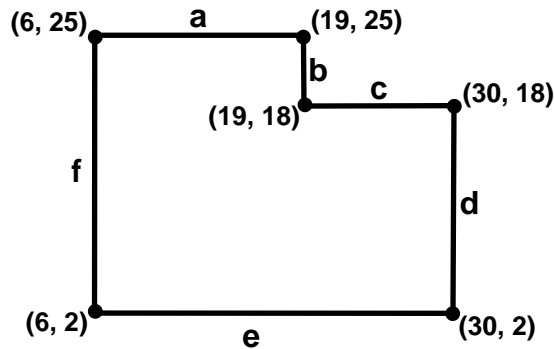
10. Find the length of side a.

(21, 9)   a   (3, 9)
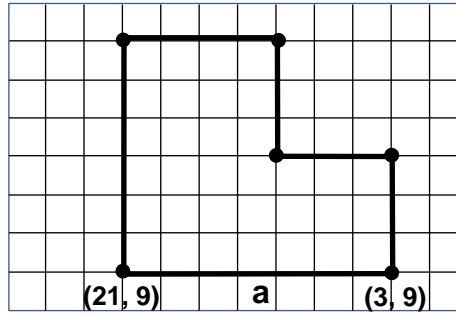
○ 6   ○ 18   ○ 21   ○ 24

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11. Find the length of side b.

(5, 16)   (10, 16)
(2, 11)   (5, 11)   b
(2, 5)   (10, 5)
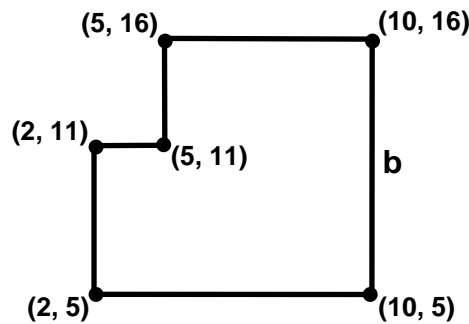
○ 5   ○ 16   ○ 21   ○ 11

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12. Find the length of side c.

(6, 25)   a   (19, 25)
b
c   (30, 18)
(19, 18)
f
d
(6, 2)   e   (30, 2)

○ 12   ○ 11   ○ 18   ○ 7

STOP

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

© OAISD, January 2024   **Number Correct = _____**

Questions 13-15: Select the correct answer for each question.
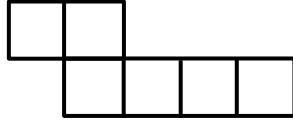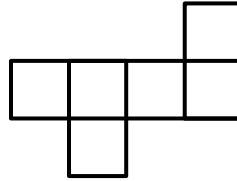
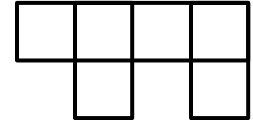**13.** Which pattern could be folded to form a cube?
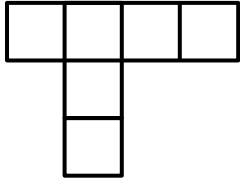
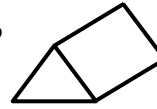| Pattern A | Pattern B | Pattern C | Pattern D |

○ A   ○ B   ○ C   ○ D

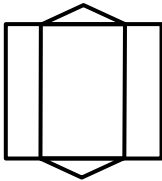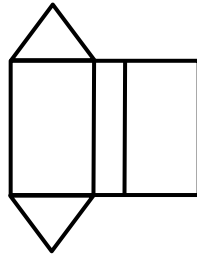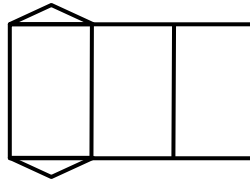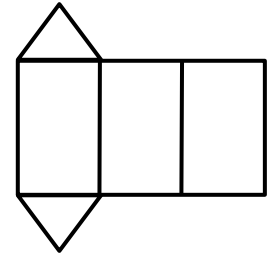**14.** Which patterns could be folded to form a right triangular prism?

Pattern A   **Pattern B**   **Pattern C**   **Pattern D**

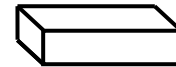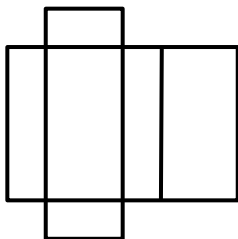○ Pattern A   ○ Pattern B   ○ Pattern C   ○ Pattern D

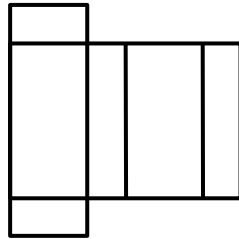**15.** Which pattern could **<u>not</u>** be folded to form a right rectangular prism?

Pattern A   **Pattern B**   **Pattern C**   **Pattern D**

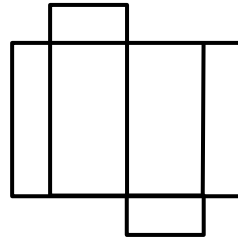○ Pattern A   ○ Pattern B   ○ Pattern C   ○ Pattern D
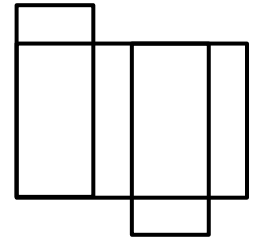
STOP

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