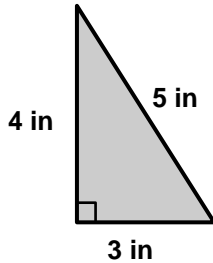# 7th Grade Geometry Readiness: Spring Screener
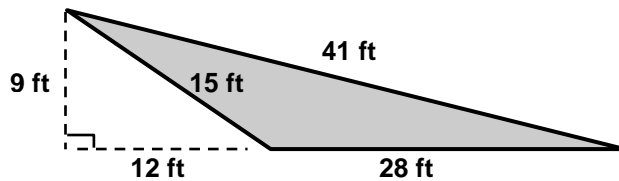
Questions 1-3: Select the correct number and label for each question.

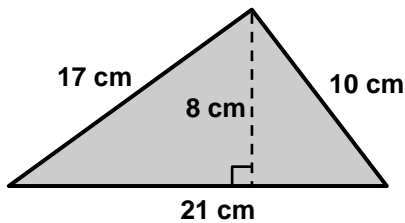**1.** Find the area of the triangle. *(Note: The figure is not drawn to scale.)*

- ○ 6
- ○ 7.5
- ○ 120
- ○ 40
- ○ in
- ○ in^3
- ○ in^2

---

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

- ○ 180
- ○ 126
- ○ 84
- ○ 210
- ○ ft^3
- ○ ft^2
- ○ ft

---

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

- ○ 168
- ○ 105
- ○ 48
- ○ 84
- ○ cm^2
- ○ cm
- ○ cm^3

STOP

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

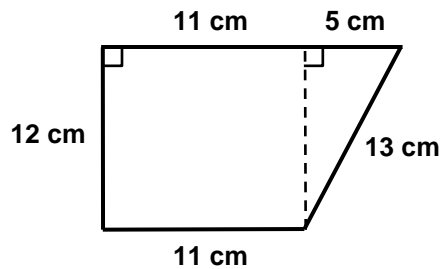**Questions 4-6:** Select the correct number and label for each question.

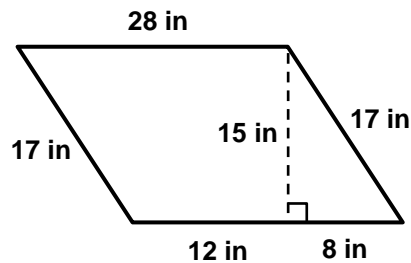**4.** Find the area of the shaded polygon.
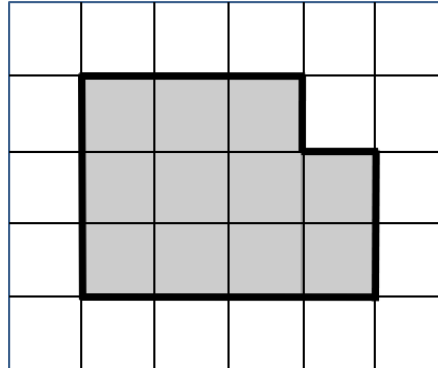
○ 14   ○ 12   ○ 11   ○ 18

○ Units   ○ Squared Units   ○ Cubed Units

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

11 cm   5 cm

12 cm

13 cm

11 cm

○ 175.5   ○ 162   ○ 192   ○ 132

○ cm^2 ○ cm   ○ cm^3

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

28 in

17 in   15 in   17 in

17 in

12 in   8 in
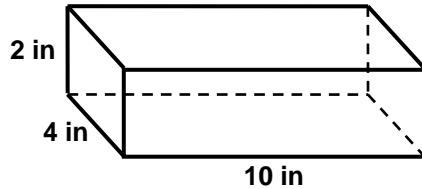
○ 476   ○ 420   ○ 210   ○ 238

○ in   ○ in^2 ○ in^3

STOP

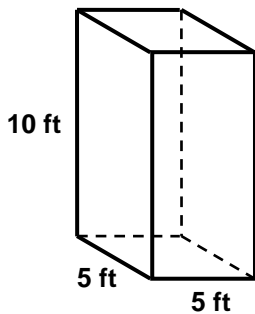Please stop, put your pencil down and wait for the next directions.

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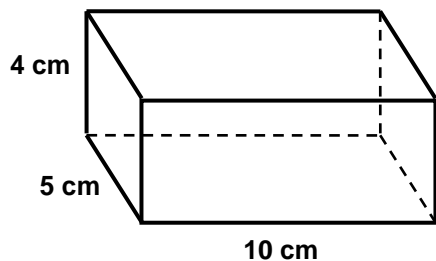*(Note: The figure is not drawn to scale.)*

2 in
4 in
10 in

| ○ 136 cubes | ○ 120 cubes | ○ 80 cubes | ○ 56 cubes |

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

10 ft
5 ft
5 ft

| ○ 20 | ○ 150 | ○ 200 | ○ 250 |
| ○ ft³ | ○ ft² | ○ ft | |

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

4 cm
5 cm
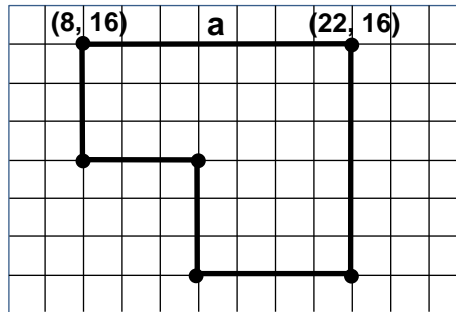**10 cm**

| ○ 120 | ○ 180 | ○ 200 | ○ 220 |
| ○ cm² | ○ cm | ○ cm³ | |

🛑 STOP

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

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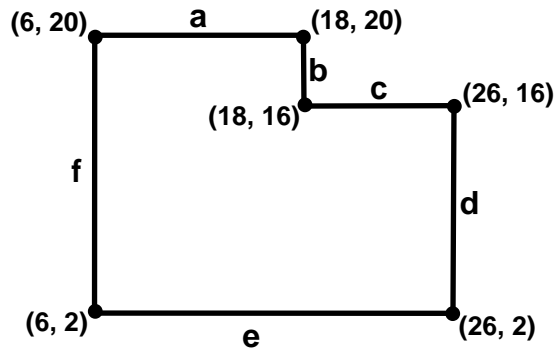
10. Find the length of side a.

(8, 16)   a   (22, 16)

○   22   ○   7   ○   14   ○   30

11. Find the length of side b.

(5, 16)   (10, 16)

(2, 11)
(5, 11)

b

(2, 5)   (10, 5)
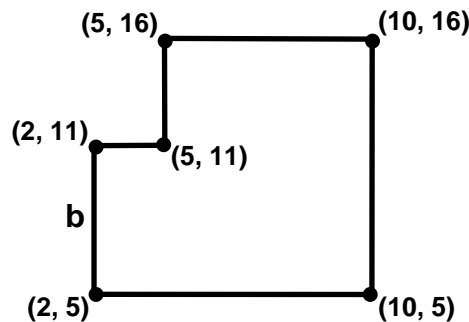
○   6   ○   5   ○   11   ○   2

12. Find the length of side c.

(6, 20)   a   (18, 20)
b
c   (26, 16)
(18, 16)

f

d

(6, 2)   (26, 2)
e

○   14   ○   4   ○   10   ○   12

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.
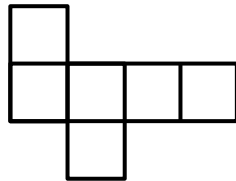
13. Which pattern could be folded to form a cube?
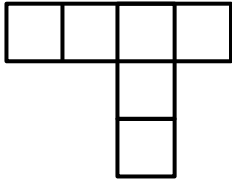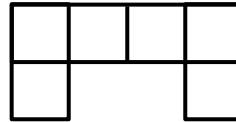
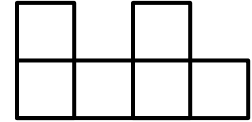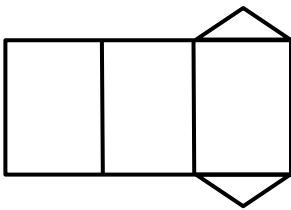| Pattern A | Pattern B | Pattern C | Pattern D |

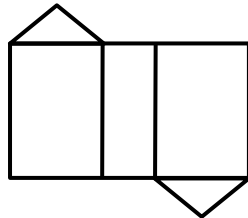○ A   ○ B   ○ C   ○ D

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

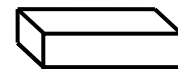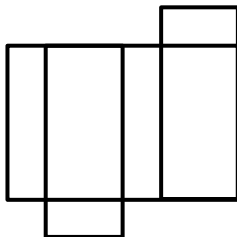| Pattern A | Pattern B | Pattern C | Pattern D |
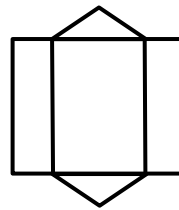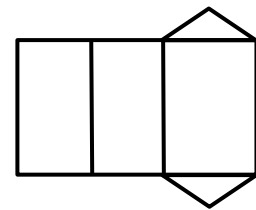
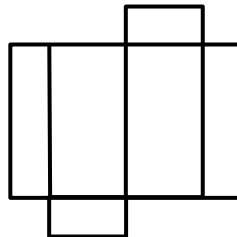○ Pattern A   ○ Pattern B   ○ Pattern C   ○ Pattern D

15. Which pattern could __not__ be folded to form a right rectangular prism?
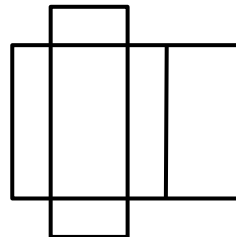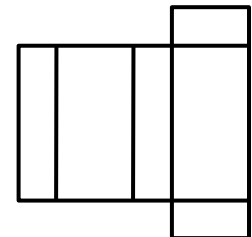
| Pattern A | Pattern B | Pattern C | Pattern D |

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

STOP

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

Number Correct = _____