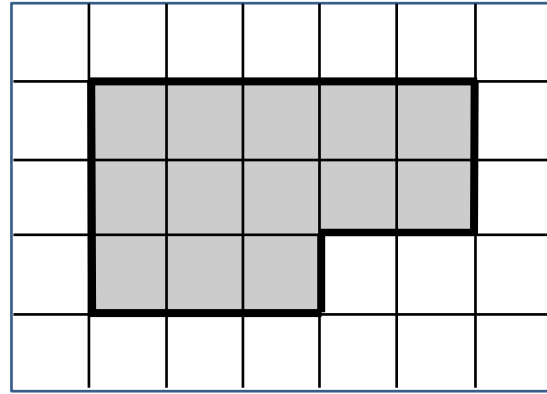# 6th Grade Geometry Readiness: Winter Screener
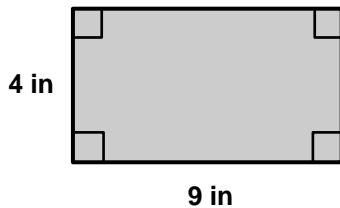
Questions 1-3: Select the correct number and label for each question.

1. Find the perimeter of the shaded polygon.
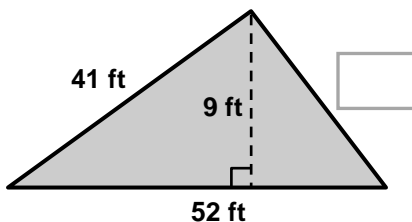
○ 13　　　　○ 19　　　　○ 16　　　　○ 20

○ Units　　　○ Squared Units　　○ Cubed Units

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

4 in

9 in

○ 36　　　　○ 26　　　　○ 13　　　　○ 18

○ in　　　　○ in²　　　　○ in³

3. The perimeter of the shaded triangle is 108 ft. Find the length of the unknown side.
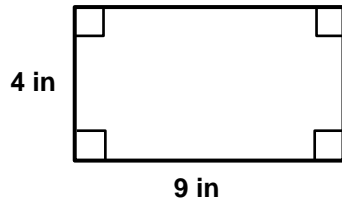*(Note: The figure is not drawn to scale.)*

41 ft

9 ft

52 ft

○ 6　　　　○ 67　　　　○ 56　　　　○ 15

○ ft　　　　○ ft²　　　　○ ft³

STOP

Please stop, put your pencil down and wait for the next directions.
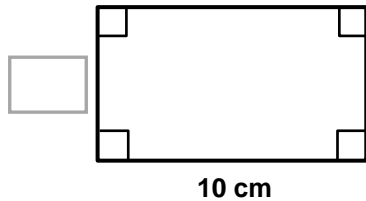
Questions 4-6: Select the correct number and label for each question.

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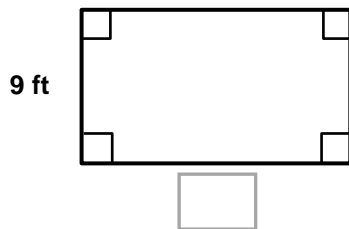
4 in

9 in

○ 13   ○ 18   ○ 26   ○ 36

○ in   ○ in²   ○ in³

5. The perimeter of the rectangle is 30 cm. What is the missing width?
(Note: The figure is not drawn to scale.)

10 cm

○ 3   ○ 5   ○ 10   ○ 20

○ cm   ○ cm²   ○ cm³

6. The area of the rectangle is 108 ft². What is the missing length?
(Note: The figure is not drawn to scale.)

9 ft

○ 12   ○ 45   ○ 90   ○ 99

○ ft   ○ ft²   ○ ft³

STOP

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

Questions 7-9: Select the correct answer for each question.
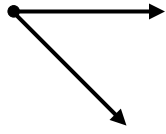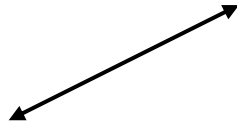
7. Which figure represents a line?

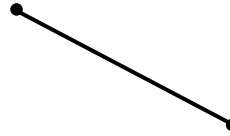Figure A   Figure B   Figure C   Figure D   Figure E

○ Figure A   ○ Figure B   ○ Figure C   ○ Figure D   ○ Figure E
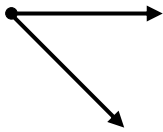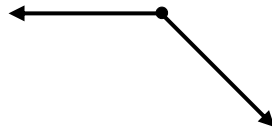
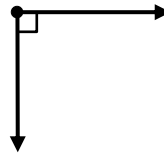**8.** Which figure represents an obtuse angle?

Figure A   Figure B   Figure C   Figure D

○ Figure A   ○ Figure B   ○ Figure C   ○ Figure D

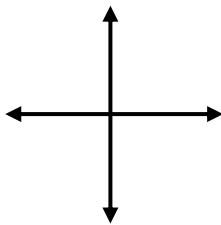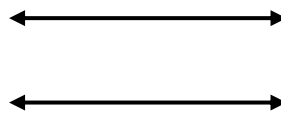**9.** Which figure appears to represent perpendicular lines?
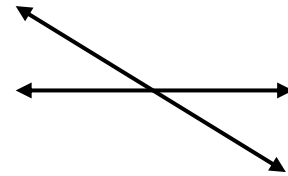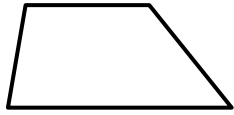
Figure A   Figure B   Figure C

○ Figure A   ○ Figure B   ○ Figure C

STOP

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

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

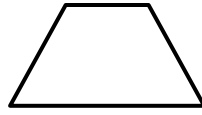**10.** Which figure appears to have two sets of parallel sides?
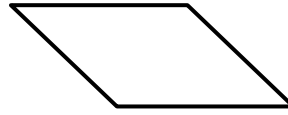

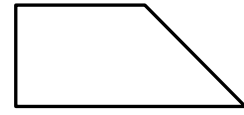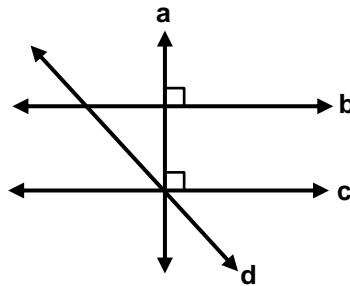| **Figure A** | **Figure B** | **Figure C** | **Figure D** |

○ Figure A   ○ Figure B   ○ Figure C   ○ Figure D

11. Which pair of lines are perpendicular to each other?

○ a and c   ○ b and d   ○ b and c   ○ a and d

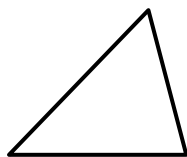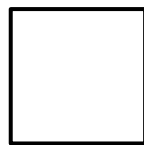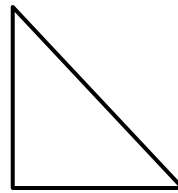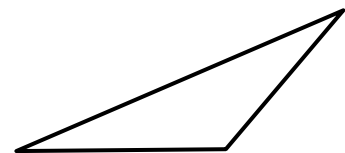**12.** Which figure appears to contain an obtuse angle?

| **Figure A** | **Figure B** | **Figure C** | **Figure D** |

○ Figure A   ○ Figure B   ○ Figure C   ○ Figure D

STOP

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

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

13. Identify all of the shapes that can be drawn with at least 1 obtuse angle?

- ○ Rectangles
- ○ Parallelograms
- ○ Squares
- ○ Acute Triangles
- ○ Obtuse Triangles
- ○ Right Triangles

14. Identify all of the shapes that can be drawn with at least one pair of perpendicular sides?

- ○ Rectangles
- ○ Parallelograms
- ○ Squares
- ○ Acute Triangles
- ○ Obtuse Triangles
- ○ Right Triangles

15. Identify all of the shapes that can be drawn with exactly two pair of parallel sides?

- ○ Rectangles
- ○ Parallelograms
- ○ Squares
- ○ Acute Triangles
- ○ Obtuse Triangles
- ○ Right Triangles

STOP

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

Number Correct = _____