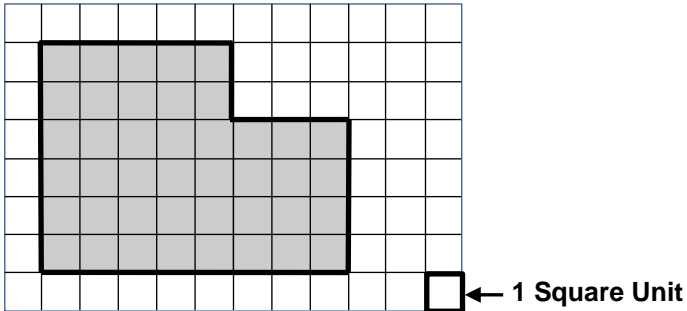


# 6<sup>th</sup> Grade Geometry Readiness: Winter Screener

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

1. Find the perimeter of the shaded polygon.


 42

 44

 46

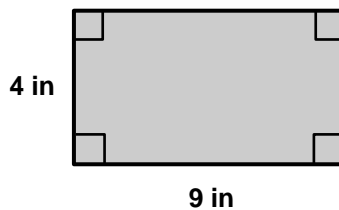
 48

 Units

 Units Squared

 Units Cubed

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


 36

 26

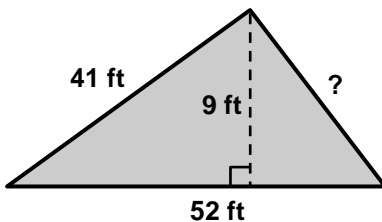
 13

 18

 in

 in<sup>2</sup>
 in<sup>3</sup>

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.)


 6

 67

 56

 15

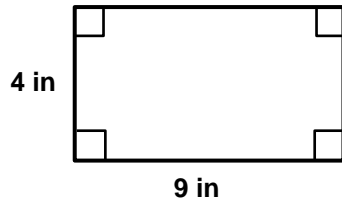
 ft

 ft<sup>2</sup>
 ft<sup>3</sup>


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

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

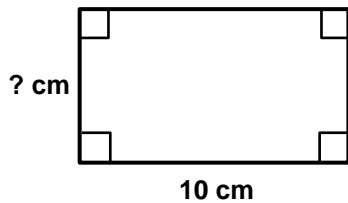
4. Find the area of the rectangle. (Note: The figure is not drawn to scale.)



- 13                       18                       26                       36  
 in                           in<sup>2</sup>                       in<sup>3</sup>

5. The perimeter of the rectangle is 30 cm. What is the missing width?

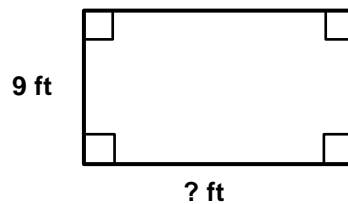
(Note: The figure is not drawn to scale.)



- 5                               20                               10                               3  
 cm                               cm<sup>2</sup>                               cm<sup>3</sup>

6. The area of the rectangle is 108 ft<sup>2</sup>. What is the missing length?

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



- 90                               99                               12                               45  
 ft                               ft<sup>2</sup>                               ft<sup>3</sup>



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?

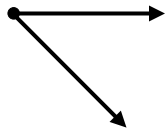


Figure A

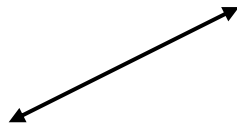


Figure B



Figure C

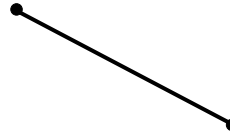


Figure D



Figure E

- Figure A  
  Figure B  
  Figure C  
  Figure D  
  Figure E

8. Which figure represents an obtuse angle?

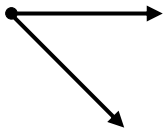


Figure A

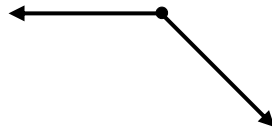


Figure B

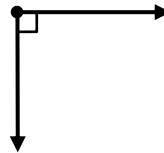


Figure C



Figure D

- Figure A  
  Figure B  
  Figure C  
  Figure D

9. Which figure appears to represent perpendicular lines?

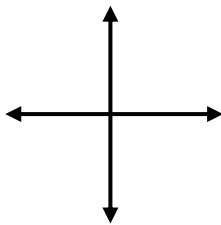


Figure A

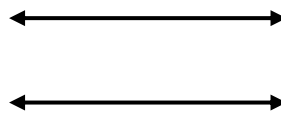


Figure B

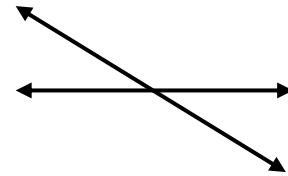


Figure C

- Figure A  
  Figure B  
  Figure C



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?

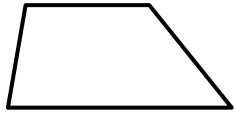


Figure A

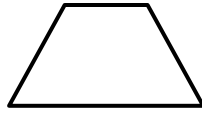


Figure B

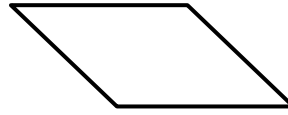


Figure C

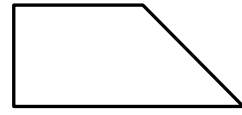


Figure D

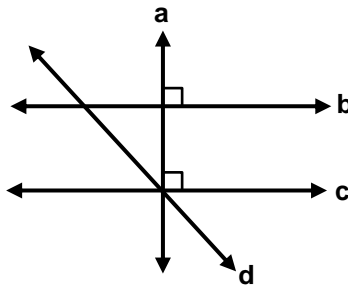
Figure A

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?

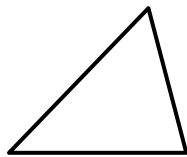


Figure A

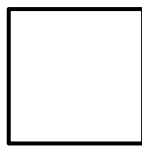


Figure B

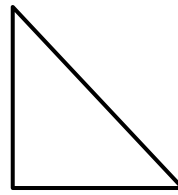


Figure C

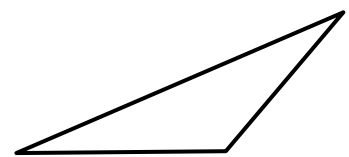


Figure D

Figure A

Figure B

Figure C

Figure D



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?

- |                                       |   |                                       |
|---------------------------------------|---|---------------------------------------|
| <input type="radio"/> Rectangles      | <input checked="" type="radio"/> Parallelograms   | <input type="radio"/> Squares         |
| <input type="radio"/> Acute Triangles | <input checked="" type="radio"/> Obtuse Triangles | <input type="radio"/> Right Triangles |

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

- |   |   |  |
|---|---|--|
| <input checked="" type="radio"/> Rectangles | <input checked="" type="radio"/> Parallelograms | <input checked="" type="radio"/> Squares         |
| <input type="radio"/> Acute Triangles       | <input type="radio"/> Obtuse Triangles          | <input checked="" type="radio"/> Right Triangles |

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

- |   |   |  |
|---|---|--|
| <input checked="" type="radio"/> Rectangles | <input checked="" type="radio"/> Parallelograms | <input checked="" type="radio"/> Squares |
| <input type="radio"/> Acute Triangles       | <input type="radio"/> Obtuse Triangles          | <input type="radio"/> Right Triangles    |



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