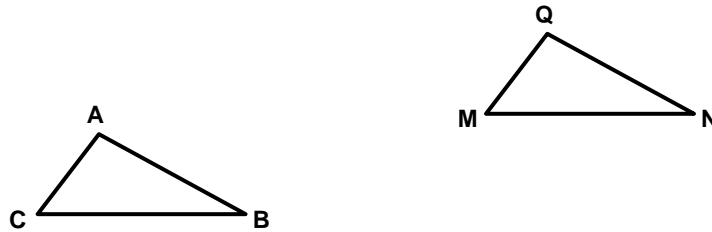


# High School Geometry Readiness: Winter Screener

Questions 1-3: Select the correct answer for each question.

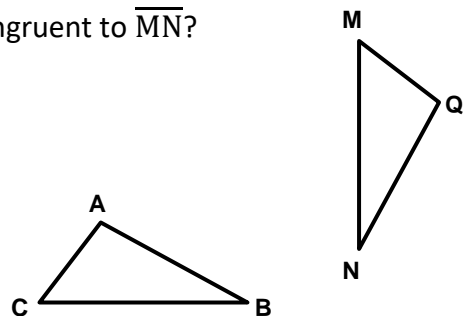
1.  $\triangle QNM$  is a translation of  $\triangle ABC$ . Which segment in  $\triangle ABC$  is congruent to  $\overline{MQ}$ ?


  $\overline{BA}$ 
  $\overline{AB}$ 
  $\overline{CA}$ 
  $\overline{CB}$ 

2.  $\triangle QNM$  is a reflection of  $\triangle ABC$ . Which segment in  $\triangle ABC$  is congruent to  $\overline{MN}$ ?


  $\overline{AB}$ 
  $\overline{BC}$ 
  $\overline{CA}$ 
  $\overline{NQ}$ 

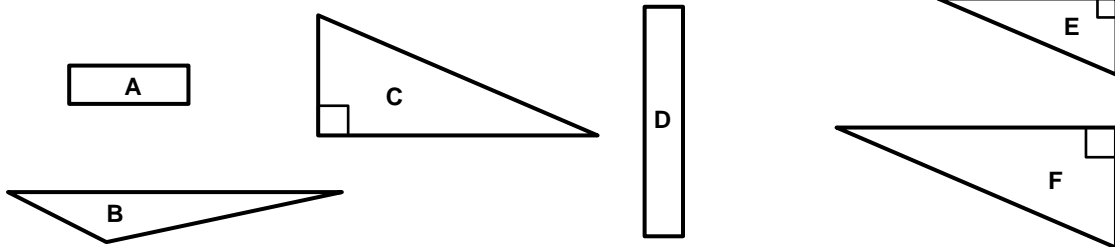
3.  $\triangle QNM$  is a rotation of  $\triangle ABC$ . Which segment in  $\triangle ABC$  is congruent to  $\overline{MN}$ ?


  $\overline{AB}$ 
  $\overline{AC}$ 
  $\overline{CA}$ 
  $\overline{CB}$ 


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

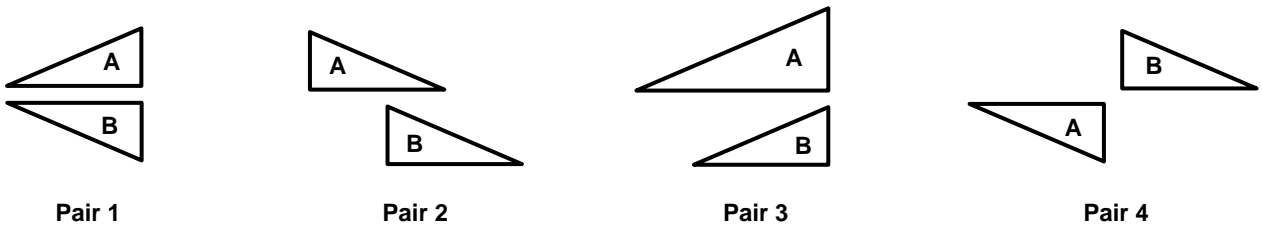
Questions 4-6: Select the correct answer for each question.

4. Which figures appear to be congruent?



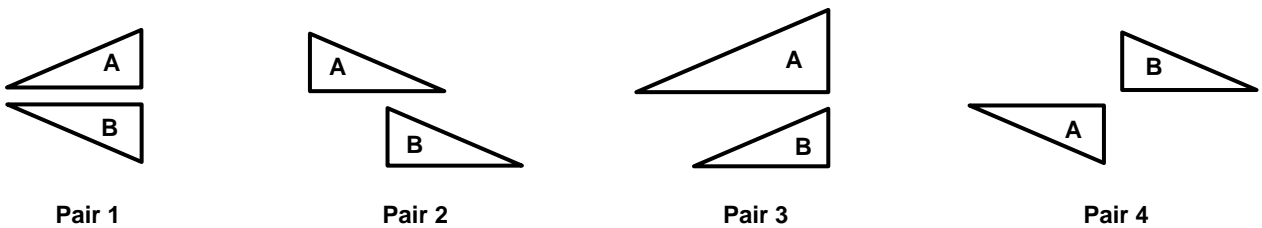
- A and B     
  B and C     
  C and E     
  C and F

5. Which pair of figures can Figure A be taken to Figure B by a translation?



- Pair 1     
  Pair 2     
  Pair 3     
  Pair 4

6. Which pair of figures can Figure A be taken to Figure B by a rotation?



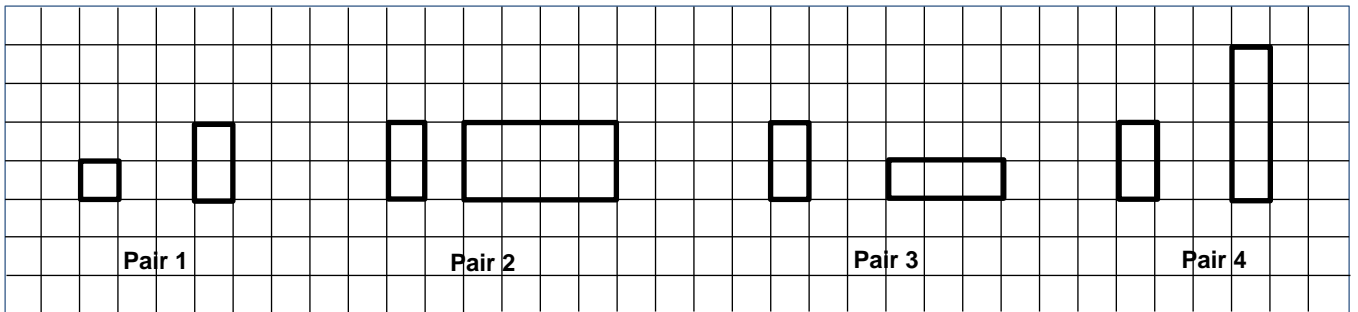
- Pair 1     
  Pair 2     
  Pair 3     
  Pair 4



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

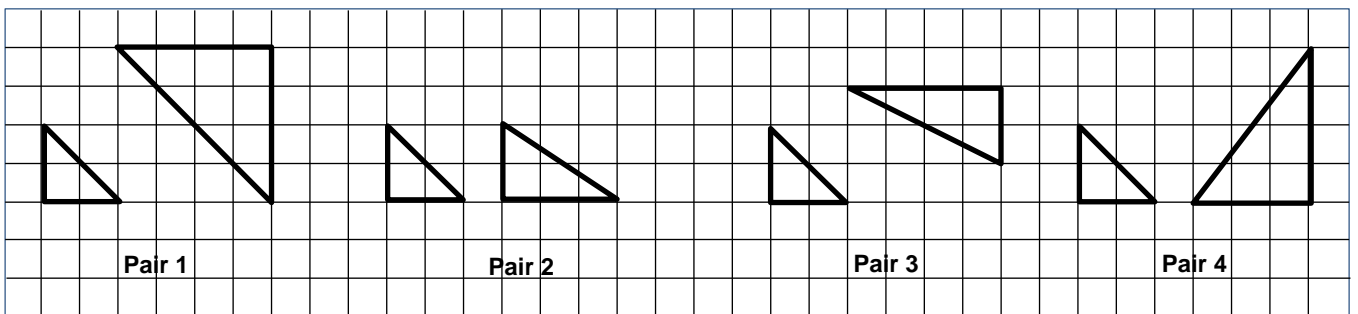
Questions 7-9: Select the correct answer for each question.

7. Which pair of figures appear to be similar figures?



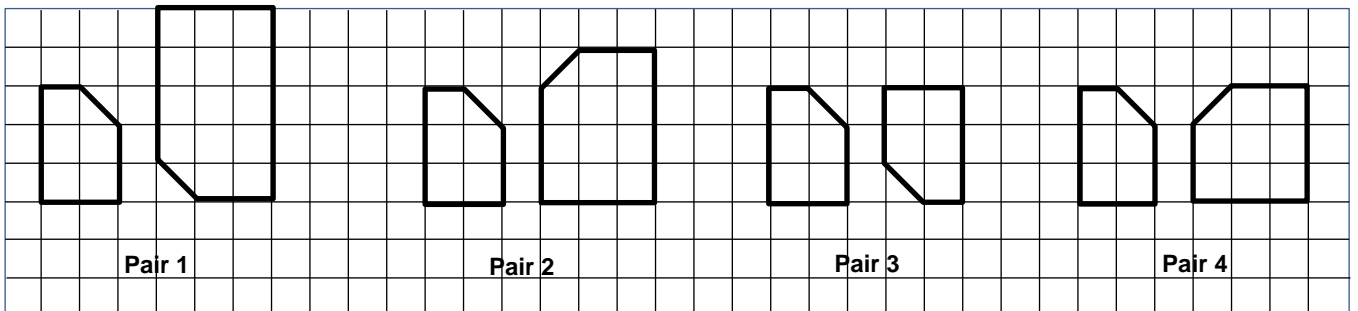
- Pair 1    
  Pair 2    
  Pair 3    
  Pair 4

8. Which pair of figures appear to be similar figures?



- Pair 1    
  Pair 2    
  Pair 3    
  Pair 4

9. Which pair of figures appear to be similar figures?



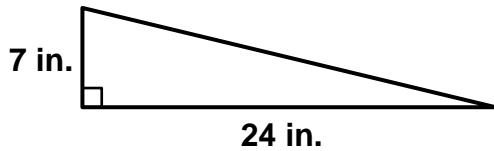
- Pair 1    
  Pair 2    
  Pair 3    
  Pair 4



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

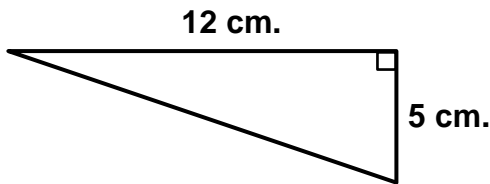
Questions 10-12: Select the correct number and label for each question.

**10.** Find the missing side of the right triangle. (Note:  $a^2 + b^2 = c^2$  and the figure is not drawn to scale.)



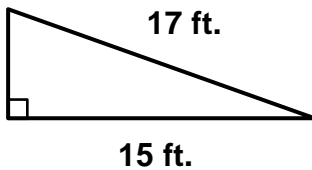
- 11                       25                       31                       17  
 in                           in<sup>2</sup>                       in<sup>3</sup>

**11.** Find the missing side of the right triangle. (Note:  $a^2 + b^2 = c^2$  and the figure is not drawn to scale.)



- 7                               17                       13                       23  
 cm<sup>2</sup>                       cm                       cm<sup>3</sup>

**12.** Find the missing side of the right triangle. (Note:  $a^2 + b^2 = c^2$  and the figure is not drawn to scale.)



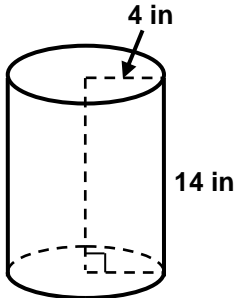
- 8                               64                       32                       2  
 ft<sup>3</sup>                           ft<sup>2</sup>                       ft



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

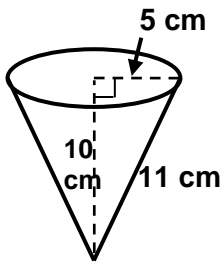
Questions 13-15: Select the correct number and label for each question.

**13.** Find the volume of the cylinder. (Note: Use 3.14 for  $\pi$  and the figure is not drawn to scale.)



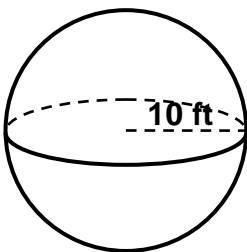
- 703.36     
  351.68     
  50.24     
  452.16  
 in     
  in<sup>2</sup>     
 in<sup>3</sup>

**14.** Find the volume of the cone. (Note: Use 3.14 for  $\pi$  and the figure is not drawn to scale.)



- 785     
  287.83     
  78.5     
 261.67  
 cm<sup>3</sup>     
  cm<sup>2</sup>     
  cm

**15.** Find the volume of the sphere. (Note: Use 3.14 for  $\pi$  and the figure is not drawn to scale.)



- 418.67     
 4,186.67     
 1,046.67     
 12,560  
 ft<sup>2</sup>     
 ft<sup>3</sup>     
 ft



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