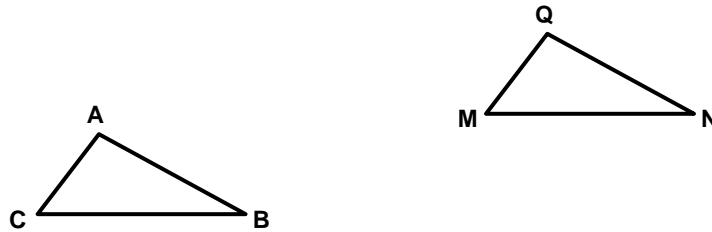


High School Geometry Readiness: Winter Screener

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{NQ} ?



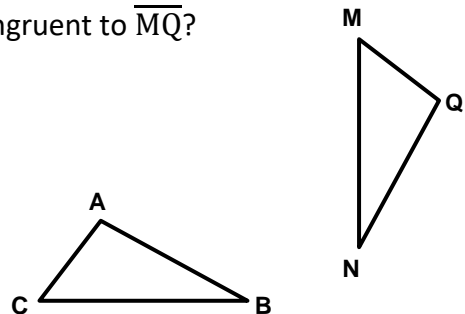
- \overline{BA}
 \overline{AB}
 \overline{CA}
 \overline{CB}

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{BA}

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



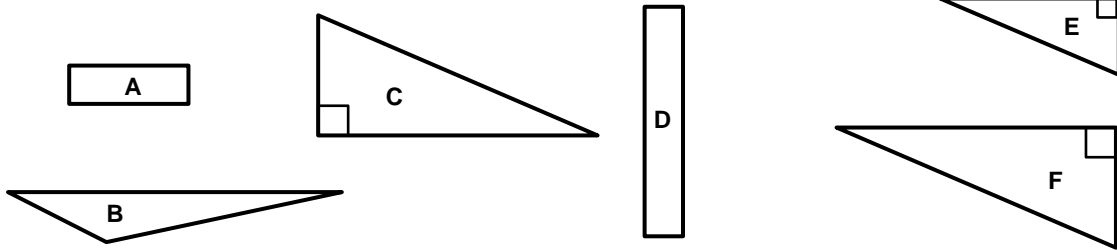
- \overline{AB}
 \overline{AC}
 \overline{CA}
 \overline{CB}



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

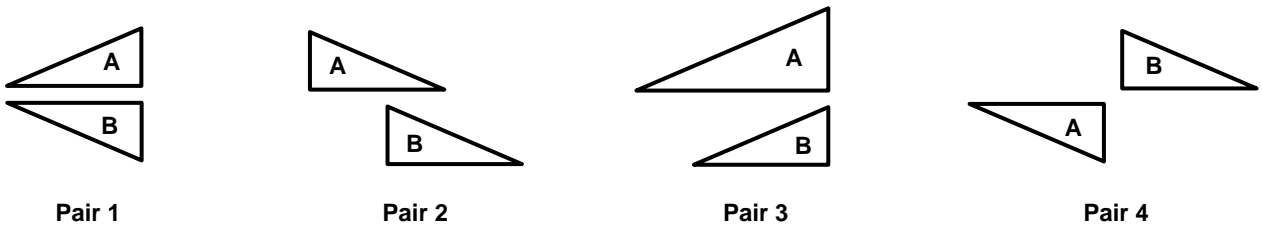
Questions 4-6: Select the correct answer for each question.

4. Which two figures appear to be congruent?



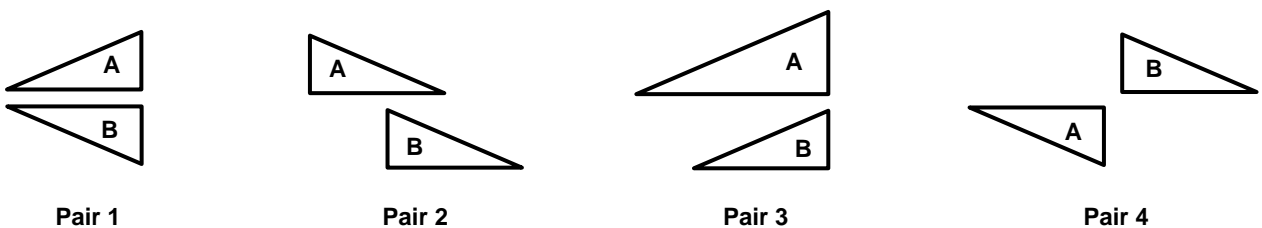
- A and B
 B and C
 C and E
 C and F

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?



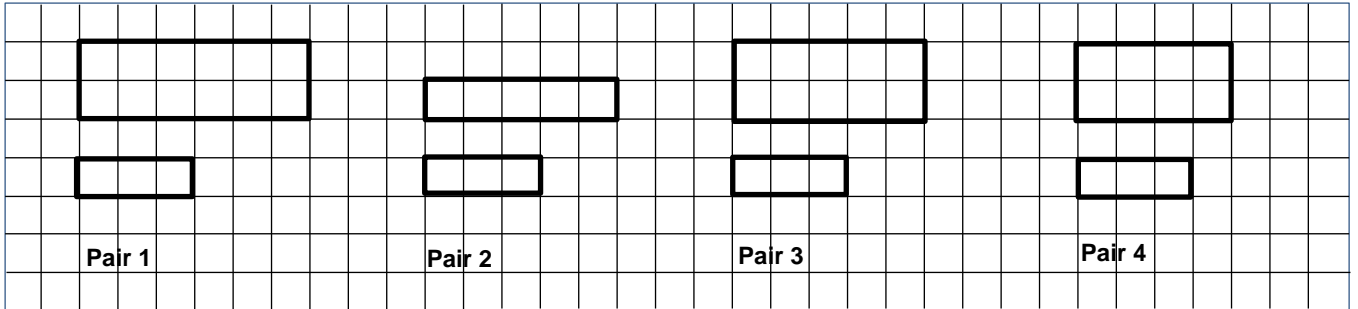
- Pair 1
 Pair 2
 Pair 3
 Pair 4



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

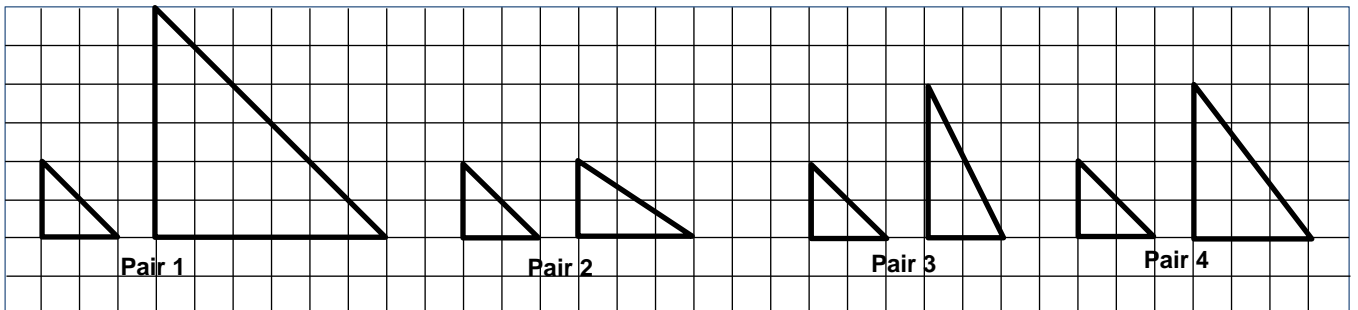
Questions 7-9: Select the correct answer for each question.

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



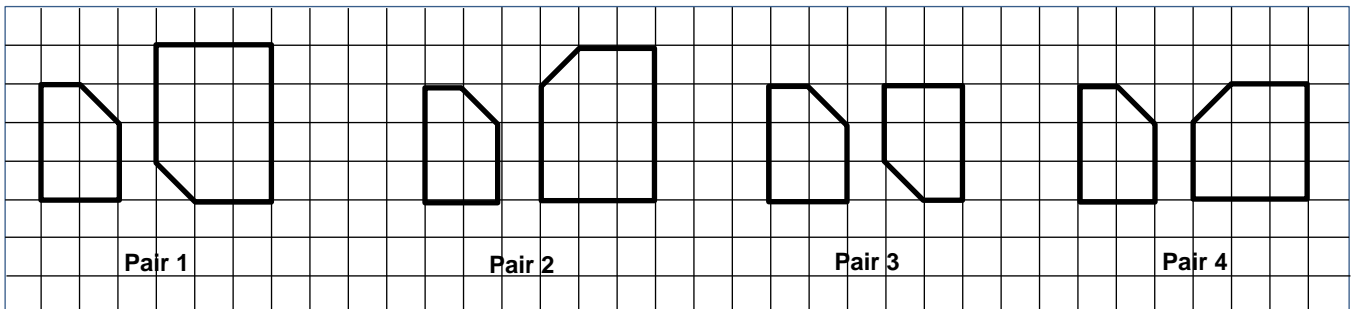
- Pair 1
 Pair 2
 Pair 3
 Pair 4

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?



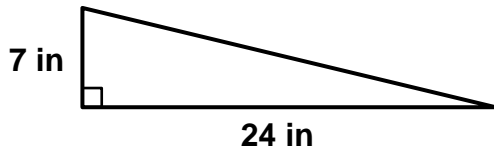
- Pair 1
 Pair 2
 Pair 3
 Pair 4



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

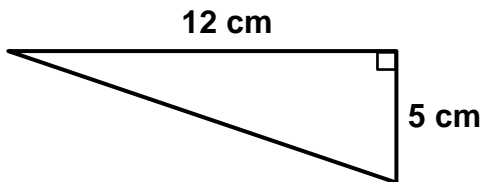
17

in

in²

in³

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

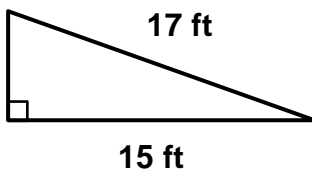
11

cm²

cm

cm³

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

23

32

2

ft³

ft²

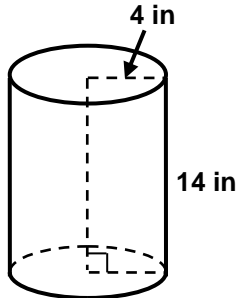
ft



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

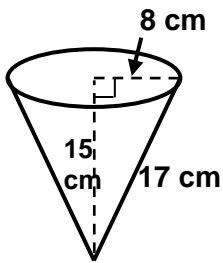
Questions 13-15: Select the correct number and label for each question.

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



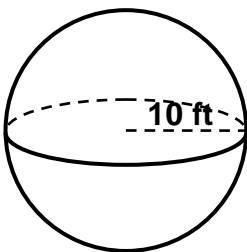
- 351.68 50.24 452.16 703.36
 in in² in³

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



- 74.42 3014.4 1004.8 24.81
 cm³ cm² cm

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



- 418.67 1,046.67 4,186.67 12,560
 ft² ft³ ft



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