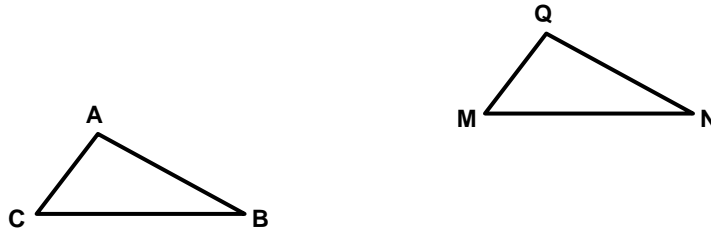


High School Geometry Readiness: Fall Screener

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{MN} ?



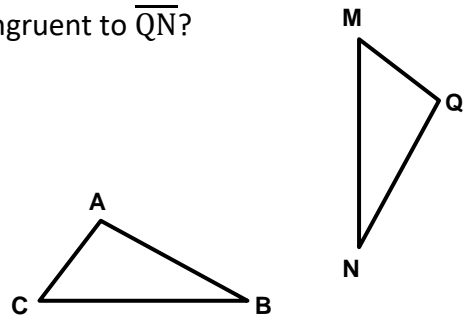
- \overline{BA}
 \overline{AB}
 \overline{CA}
 \overline{CB}

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



- \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{QN} ?



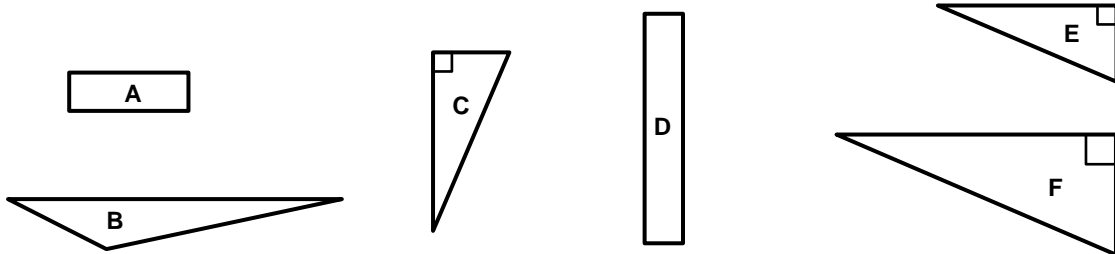
- \overline{AB}
 \overline{AC}
 \overline{CA}
 \overline{CB}



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

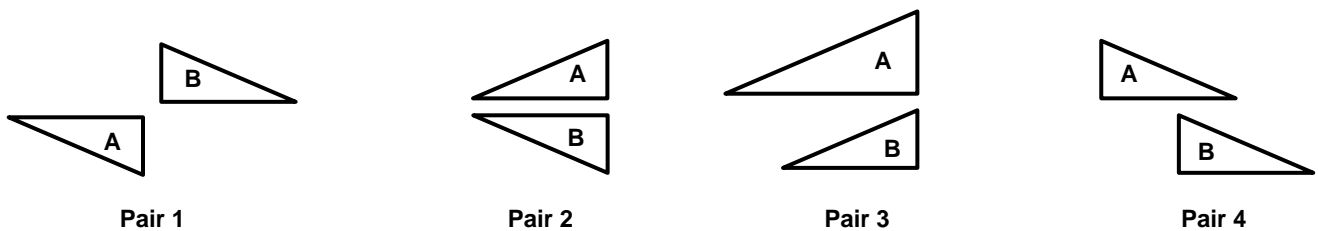
Questions 4-6: Select the correct answer for each question.

4. Which figures appear to be congruent?



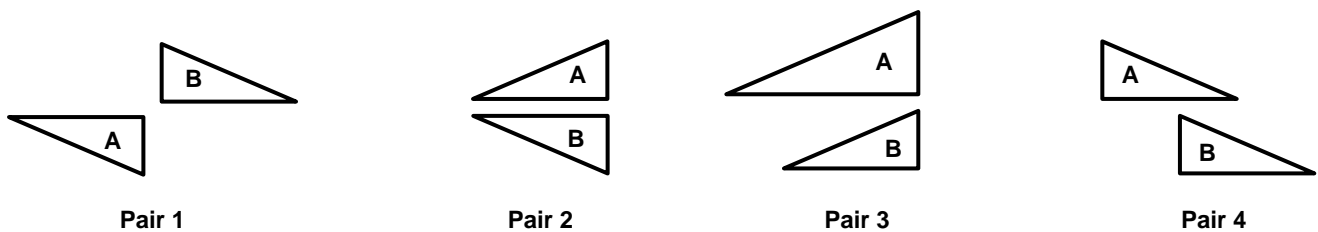
- A and B
 B and C
 C and E
 E and F

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



- Pair 1
 Pair 2
 Pair 3
 Pair 4

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



- Pair 1
 Pair 2
 Pair 3
 Pair 4



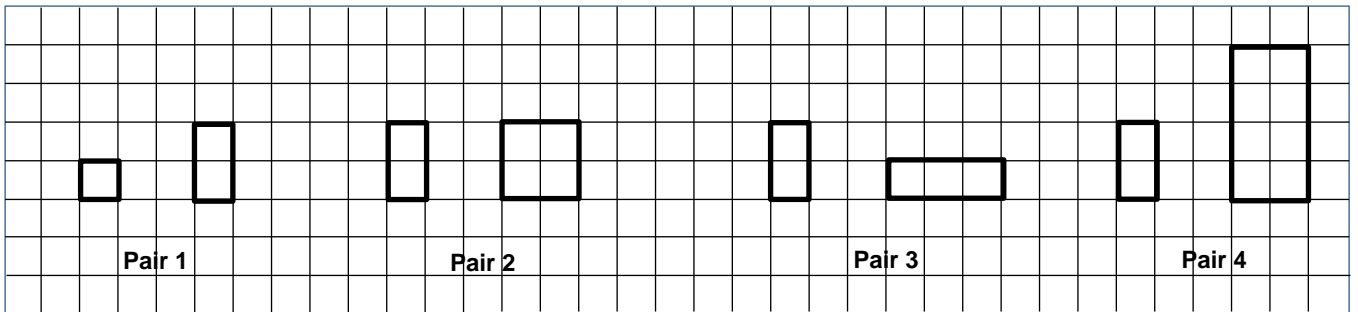
Please stop, put your pencil down and wait for the next directions.

H.S. Geometry Readiness: Fall

(continued)

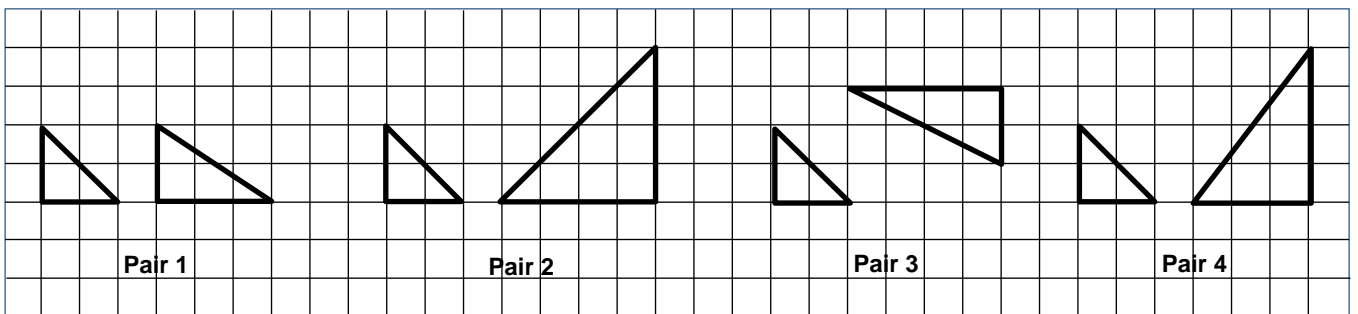
Questions 7-9: Select the correct answer for each question.

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



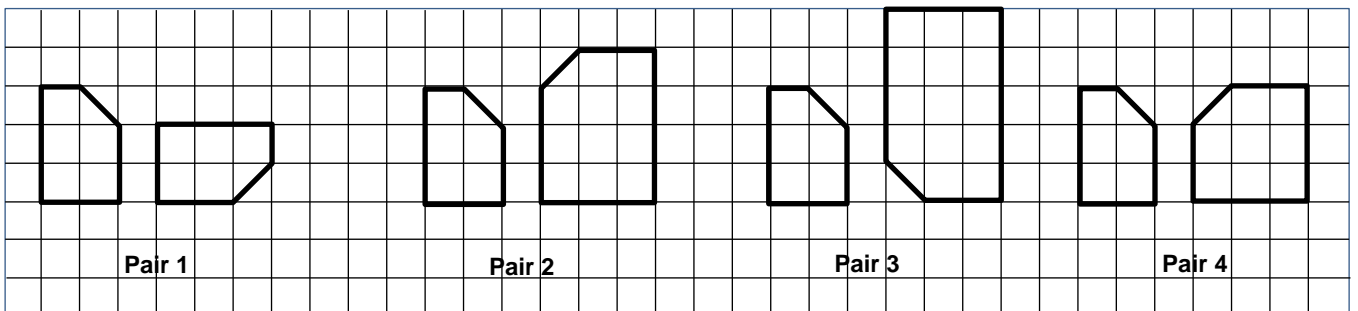
- Pair 1
 Pair 2
 Pair 3
 Pair 4

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?



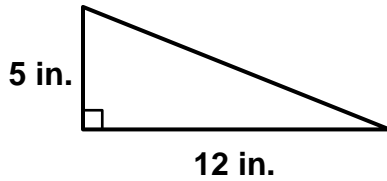
- Pair 1
 Pair 2
 Pair 3
 Pair 4



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

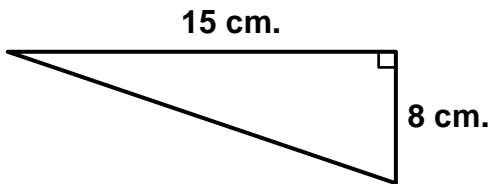
Questions 10-12: Select the correct number and label for each question.

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



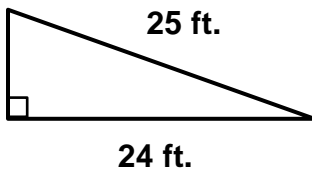
- | | | | |
|--------------------------|---------------------------------------|---------------------------------------|--------------------------|
| <input type="radio"/> 7 | <input type="radio"/> 11 | <input type="radio"/> 13 | <input type="radio"/> 17 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |

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



- | | | | |
|---------------------------------------|--------------------------|---------------------------------------|--------------------------|
| <input type="radio"/> 7 | <input type="radio"/> 17 | <input type="radio"/> 13 | <input type="radio"/> 23 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |

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



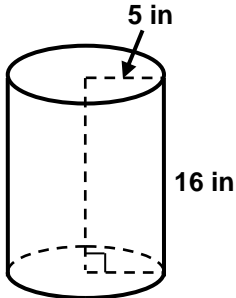
- | | | | |
|---------------------------------------|---------------------------------------|--------------------------|-------------------------|
| <input type="radio"/> 7 | <input type="radio"/> 49 | <input type="radio"/> 35 | <input type="radio"/> 1 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |



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

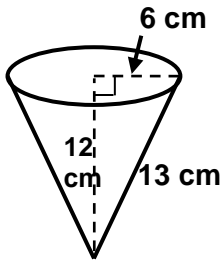
Questions 13-15: Select the correct number and label for each question.

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



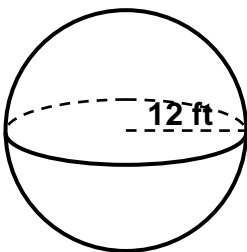
- | | | | |
|--------------------------------|---------------------------------------|---------------------------------------|------------------------------|
| <input type="radio"/> 1,256.64 | <input type="radio"/> 502.40 | <input type="radio"/> 78.50 | <input type="radio"/> 659.40 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |

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



- | | | | |
|---------------------------------------|---|--------------------------------|------------------------------|
| <input type="radio"/> 113.04 | <input type="radio"/> 489.84 cm. ³ | <input type="radio"/> 1,356.48 | <input type="radio"/> 452.16 |
| <input type="radio"/> cm ³ | <input type="radio"/> cm ² | <input type="radio"/> cm | |

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



- | | | | |
|---------------------------------------|---------------------------------------|--------------------------------|---------------------------------|
| <input type="radio"/> 602.88 | <input type="radio"/> 7,234.56 | <input type="radio"/> 1,808.64 | <input type="radio"/> 21,703.68 |
| <input type="radio"/> ft ² | <input type="radio"/> ft ³ | <input type="radio"/> ft | |



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