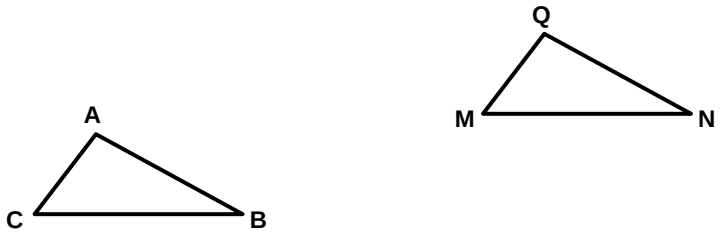
Name _____ Date _____

High School Geometry Readiness: Winter Screener

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

1. ΔQNM is a translation of ΔABC. Which segment in ΔABC is congruent to $\overline{MQ}$?

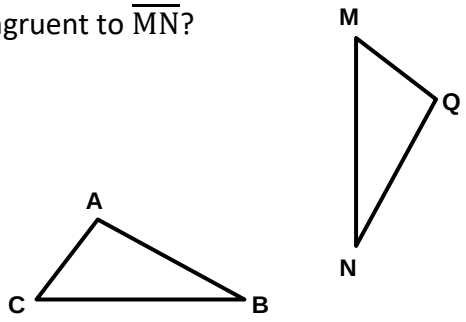


○ $\overline{BA}$ ○ $\overline{AB}$ ○ $\overline{CA}$ ○ $\overline{CB}$

2. ΔQNM is a reflection of ΔABC. Which segment in ΔABC is congruent to $\overline{MN}$?

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

3. ΔQNM is a rotation of ΔABC. Which segment in ΔABC is congruent to $\overline{MN}$?



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

STOP

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

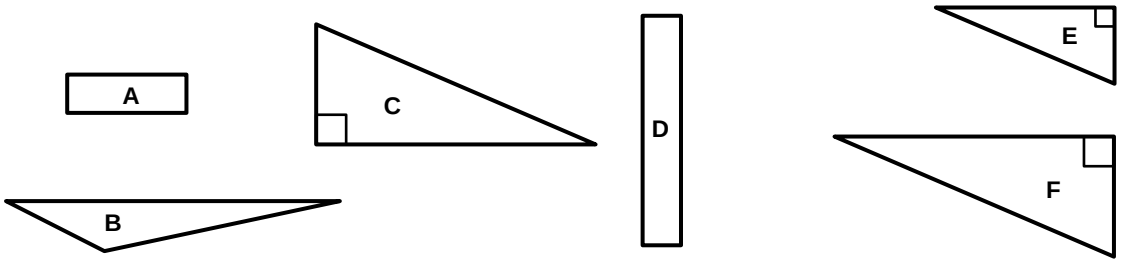
Number Correct = _____

H.S. Geometry Readiness: Winter

(continued)

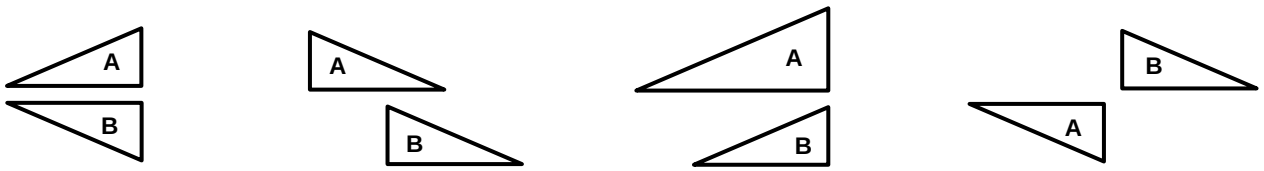
Questions 4-6: Select the correct answer for each question.

4. Which figures appear to be congruent?



○ A and B ○ B and C ○ C and E ○ C and F

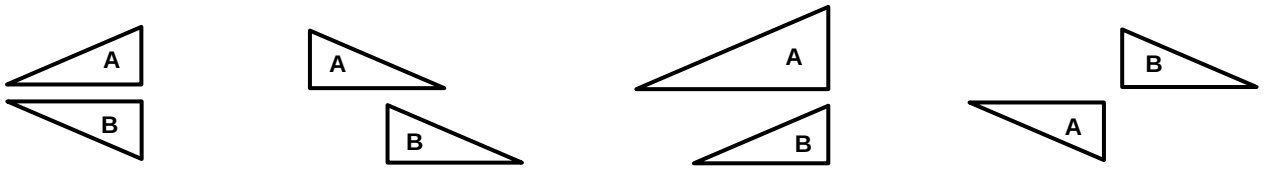
5. Which pair of figures can Figure A be taken to Figure B by a translation?



Pair 1 **Pair 2** **Pair 3** **Pair 4**

○ 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**

○ Pair 1 ○ Pair 2 ○ Pair 3 ○ Pair 4

STOP

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

Number Correct = _____

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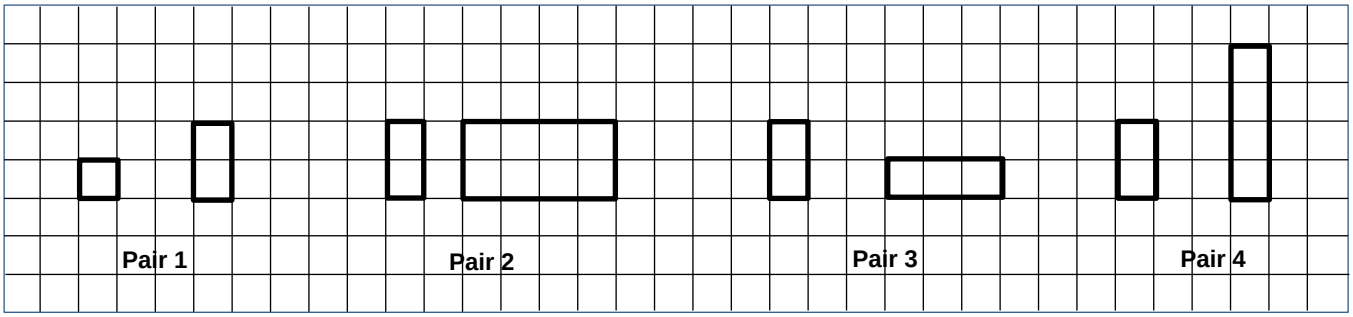
(continued)

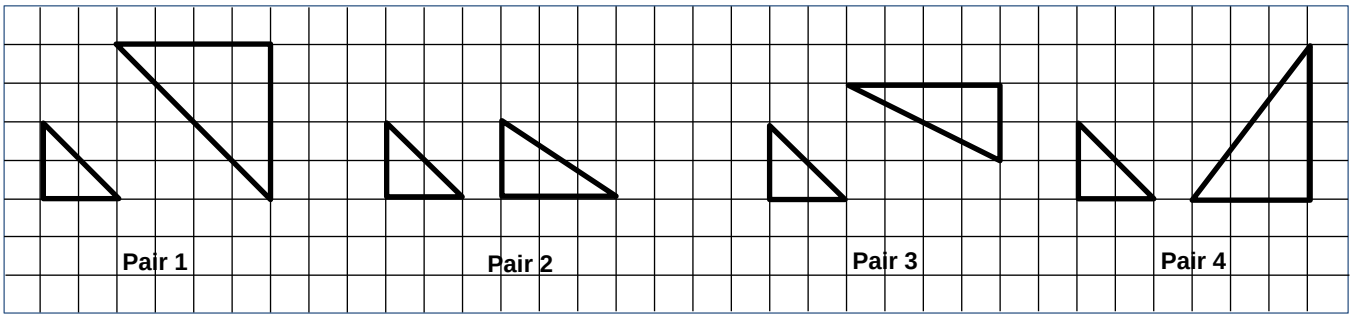
Questions 7-9: Select the correct answer for each question.

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



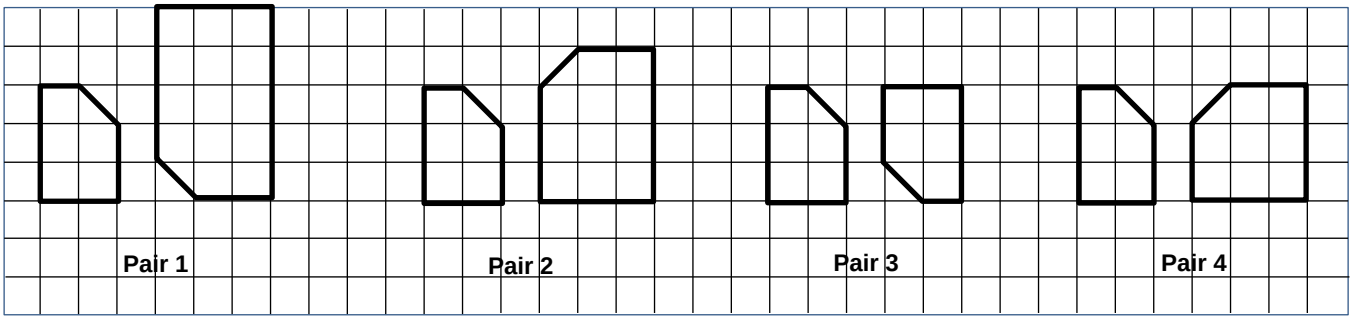
○ Pair 1 ○ Pair 2 ○ Pair 3 ○ Pair 4

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

STOP

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

Number Correct = _____

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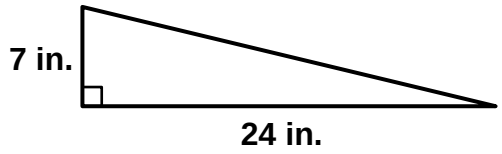
Questions 10-12: Select the correct number and label for each question.

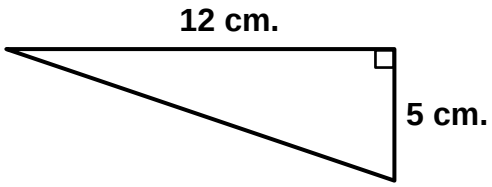
10. Find the missing side of the right triangle. *(Note: $a^2 + b^2 = c^2$ and the figure is not drawn to scale.)*



○ 11 ○ 25 ○ 31 ○ 17

○ in ○ in^2 ○ in^3

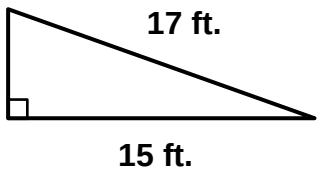
11. Find the missing side of the right triangle. *(Note: $a^2 + b^2 = c^2$ and the figure is not drawn to scale.)*



○ 7 ○ 17 ○ 13 ○ 23

○ cm^2 ○ cm ○ 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.)*



○ 8 ○ 64 ○ 32 ○ 2

○ ft^3 ○ ft^2 ○ ft

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

Number Correct = _____

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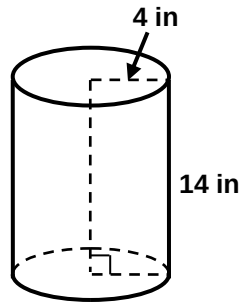
Questions 13-15: Select the correct number and label for each question.

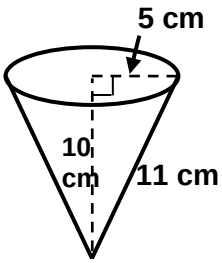
13. Find the volume of the cylinder. *(Note: Use 3.14 for π and the figure is not drawn to scale.)*



○ 703.36 ○ 351.68 ○ 50.24 ○ 452.16

○ in ○ in^2 ○ in^3

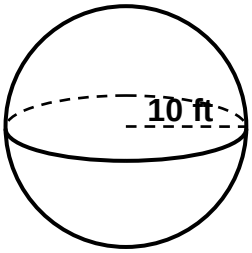
14. Find the volume of the cone. *(Note: Use 3.14 for π and the figure is not drawn to scale.)*



○ 785 ○ 287.83 ○ 78.5 ○ 261.67

○ cm^3 ○ cm^2 ○ cm

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



○ 418.67 ○ 4,186.67 ○ 1,046.67 ○ 12,560

○ ft^2 ○ ft^3 ○ ft

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

Number Correct = _____