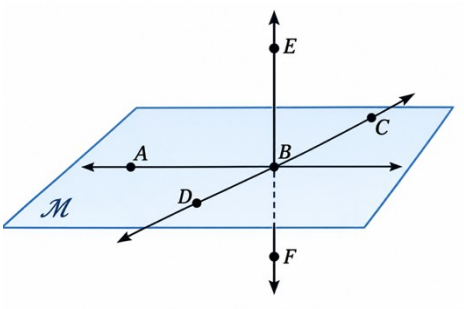
SC Honors Geometry - Nappier
Chapter 1 Review

Name: _____

1.1 Basics of Geometry — use the top diagram.



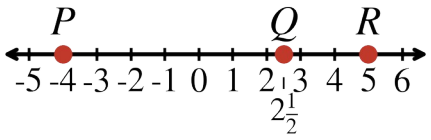
1. Name two lines.

2. Name two rays with endpoint B.

3. Name three collinear points.

1.2 Measuring & Constructing Segments — use the number line.

4. Find PQ and QR.



5. K is between J and L. JK = 15 and KL = 9. Find JL.

6. S is between R and T. RS = 3x + 1, ST = x – 3, RT = 42. Find RS.

1.3 Midpoint & Distance

7. Find the midpoint of $\overline{AB}$ with A(–8, 5) and B(2, –3).

8. M(–1, 2) is the midpoint of $\overline{AB}$, and A has coordinates (4, 6). Find B.

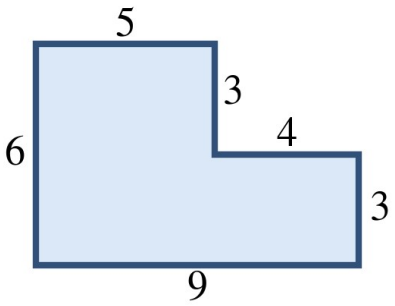
9. Find the distance between (–2, 3) and (4, –5).

1.4 Perimeter & Area

10. What do you call a polygon with 7 sides? Is a polygon with a "dent" convex or concave?

11. A rectangle has vertices (–5, 2), (3, 2), (3, –3), and (–5, –3). Find its perimeter and area.

12. Find the perimeter and area of the shaded figure.



1.5 Measuring & Constructing Angles

13. m∠ABD = 27° and m∠DBC = 44°, with D in the interior of $\angle ABC$. Find m∠ABC.

14. ∠XYZ is a straight angle divided into angles measuring (9x + 11)° and (5x + 1)°. Find both measures.

15. Ray WY bisects ∠XWZ. m∠XWY = (6x + 2)° and m∠YWZ = (8x – 12)°. Find m∠XWZ.

1.6 Describing Pairs of Angles — use the bottom diagram for Exercise 7.

16. In the diagram, find m∠1, m∠2, and m∠3.

17. Find the complement and the supplement of a 71° angle.

18. Two angles that form a linear pair measure (5x + 12)° and (3x + 8)°. Find both measures.