1. Mark with color pencil

a. Line $\overleftrightarrow{AB}$

$A \qquad B$

b. Line segment $\overline{AB}$

$A \qquad B$

c. Ray $\overrightarrow{AB}$

$A \qquad B$

d. Ray $\overrightarrow{BA}$

$A \qquad B$

2. Draw all possible positions of a circle and a straight line on a plane. How many common points can the circle and the line have? (To draw circles, use compass, to draw lines always use ruler!)

3. Draw the line a and mark points A, B, C, D, K on the line a so that

a. Point C belongs to the segment $\overline{AB}$;

b. Point D belongs to the ray $\overrightarrow{AB}$ and doesn't belongs to the segment $\overline{AB}$;

c. Point K belongs to the ray $\overrightarrow{BA}$ and doesn't belongs to the segment $\overline{AB}$;\
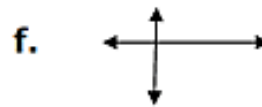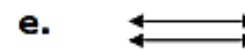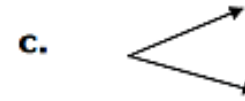
4. Match the name with its picture

1. **Point**		a.	•———▶
2. **Line segment**		b.	•———•
3. **Line**		c.	(angle figure)
4. **Ray**		d.	•
5. **Parallel lines**		e.	⇄ (parallel arrows)
6. **Perpendicular lines**		f.	┼ (perpendicular arrows)
7. **Angle**		g.	◀———▶
8. **Midpoint**		h.	◀——•——▶

5. Solve the following equations:

a. $3z - 11 = 16$ b. $62 + 2y + 5 = 81$ c. $101 - 4x = 21$
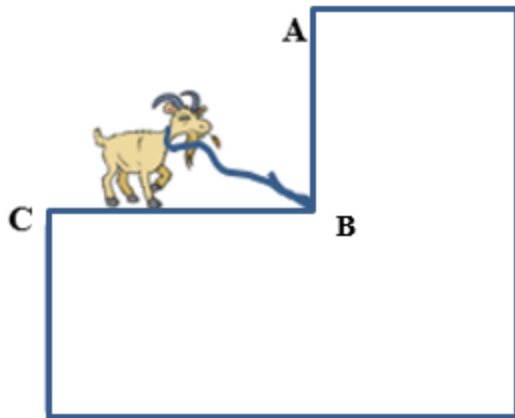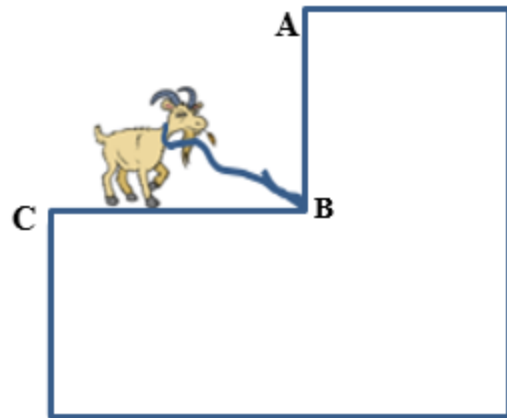
d. $2x - 23 = 21$ e. $26 + 3y = 5$ f. $4z + 7 = 39$

*6. A goat is tied to a stake in the corner of a building with a 5-yard-long rope. What shape it will graze if the lengths of the walls are as follows:

1.   AB =6 yards and BC = 7 yards

2. AB =4 yards and BC = 5 yards

7. Simplify:

a) 1 m + 8 m - 5 m =

b) $6x + 2x + 9x - 12 =$

c) $7x + 3 - 5x + 7 =$

d) $3 + 9x + 2xy - 4x =$

e) $3yz - 2z + 5yz + 8y =$

f) $34a - 10a + 8b - 2b + 2ab =$