

Parallel Lines and Transversal Quiz Review

Name: _____

Date: _____

| Congruent | Supplementary |
|-----------|---------------|
| 1. | 1. |
| 2. | 2. |
| 3. | |
| 4. | |

For 5&6 use the following information to set up equations.

- $\angle 1 = 4x - 30$
- $\angle 12 = 6x + 70$

5. If $\angle 1 \cong \angle 12$ set up the equation and solve for x

6. If $\angle 1$ is supplementary to $\angle 12$ set up the equation and solve for x.

7. Which line is the transversal?

8. Name one pair of vertical angles:

9. Name two pairs of supplementary angles:

10. Name all four pairs of corresponding angles:

11. Name one pair of alternate exterior angles:

12. Name one pair of alternate interior angles:

13. Name two pairs of consecutive interior angles:

14. Given $\angle 1 = 115^\circ$, find the following:

$\angle 2 =$

$\angle 3 =$

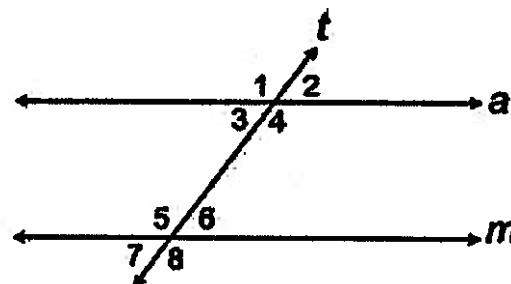
$\angle 4 =$

$\angle 5 =$

$\angle 6 =$

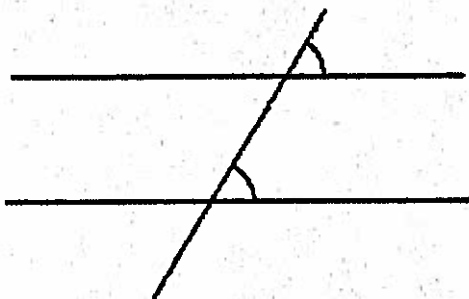
$\angle 7 =$

$\angle 8 =$

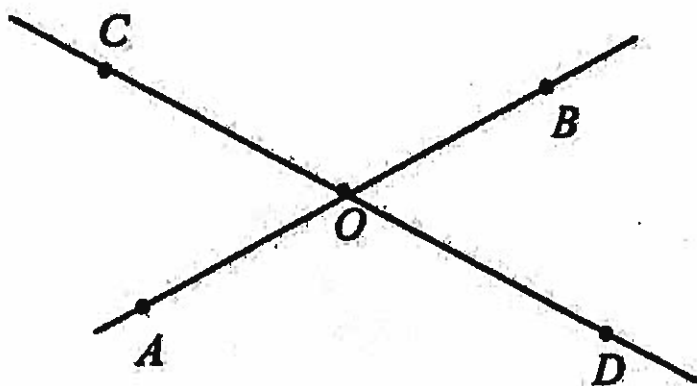


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15. Are the following lines parallel? How do you know?



~~16. Prove that $\angle COB \cong \angle AOD$.~~



| Statement | Reason |
|-----------|--------|
| 1 | |

17. What kind of angles did you prove congruent?

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City Project

You are to design your own city and include the following:

- 1.) City name and population at the top of the project
- 2.) Three parallel streets (each street must be named)
- 3.) At least one transversal street (name your street(s))

The following buildings must be placed as directed: All requirements must be labeled.

- 4.) A gas station and restaurant (alternate exterior angles)
- 5.) A movie theater and a grocery store (alternate interior angles)
- 6.) A Courthouse and a bank (vertical angles).
- 7.) A Mall and a Laser Tag Game Center (corresponding angles)
- 8.) Your house and the school (same side interior angles)
- 9.) Traffic light at two intersections (you can use three circles to represent the light)
- 10.) Label each building
- 11.) Use crayons or coloring pencils to make your city attractive – be creative!!!!
- 12.) Turn in this sheet with your project.

Scoring Checklist

Item

Correctly Placed

Parallel streets

Transversal streets

Gas station/restaurant

Movie theater/grocery store

Courthouse/bank

Mall/laser tag

Your house/school

Traffic lights

Creative/colorful

City name

Population

Mastery - 8 or 7 of the first eight items above the line correct

Partial Mastery – 6 or 5 of the first eight items above the line correct

Limited Mastery – 4 or less of the first eight items above the line correct.

