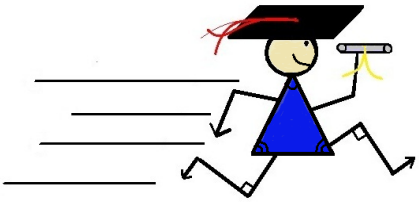
ANGLES SMART CARD

Volume 7, Chapter 1



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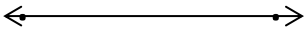
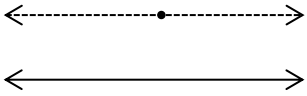
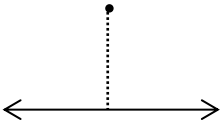
1. Two points connect to form a line



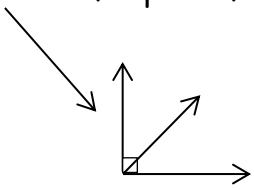
2. Exactly one line can be drawn through a point not on a given line and parallel to the given line.



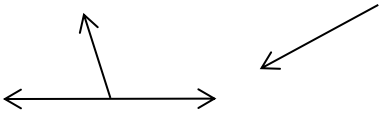
3. Through a given point not on a line, there exists exactly one perpendicular to the given line.



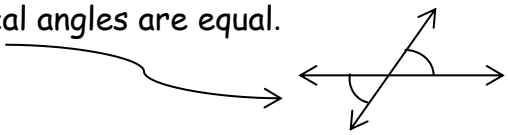
4. If the exterior sides of a pair of adjacent angles are perpendicular, then the angles are complementary.



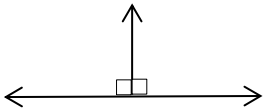
5. If the exterior sides of a pair of adjacent angles form a straight line, then the angles are supplementary.



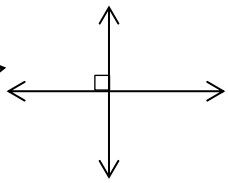
6. Vertical angles are equal.



7. If two angles are congruent and supplementary, then each is a right angle.



8. Perpendicular lines intersect to form four right angles.



9. If two lines intersect to form congruent adjacent angles, then the lines are perpendicular.

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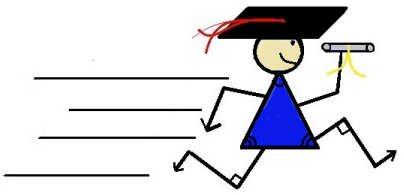

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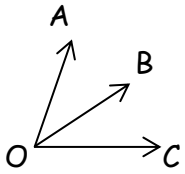
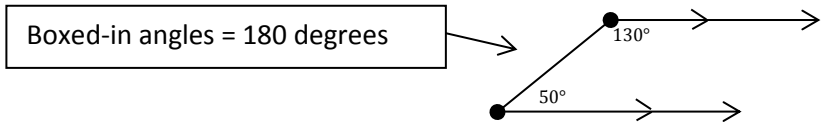
10. All right angles measure $90°$.

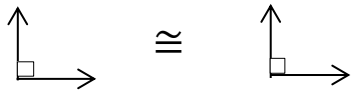
11. Angle Addition Postulate: If point B lies in the interior of $\measuredangle AOC$, then $\measuredangle AOB + \measuredangle BOC = \measuredangle AOC$.



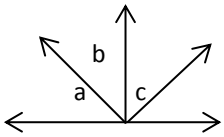
12. If two lines are parallel, then interior angles on the same side of the transversal are supplementary. **And the converse is true;** if a pair of interior angles on the same side of the transversal are supplementary, then the lines are parallel.



13. All right angles are congruent.

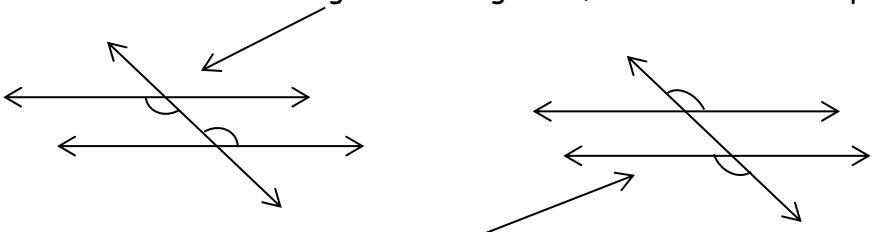


14. If two angles are complementary (or supplementary) to the same angle or to congruent angles, then they are congruent.



15. If two lines are cut by a transversal, then any pair of angles are either congruent or supplementary.

16. If two lines are parallel, then their alternate interior angles are congruent. **The converse is also true**; if a pair of alternate interior angles are congruent, then the lines are parallel.



17. If a pair of alternate exterior angles are congruent, then the lines are parallel.

18. If two lines are parallel, then their corresponding angles are congruent. **And the converse is true**; if a pair of corresponding angles are congruent, then the lines are parallel.