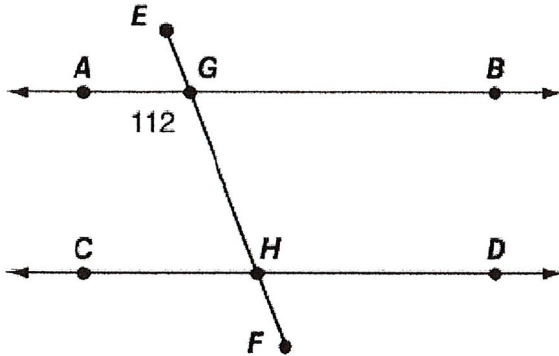


Unit 1B Exam Prep

Name: _____
 Due Date _____ Hour _____

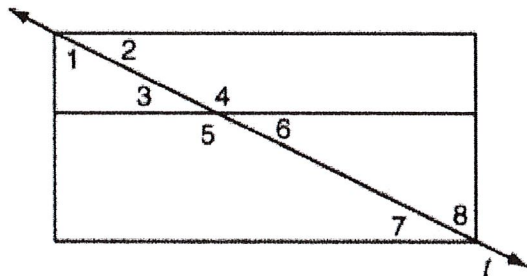
1. In the diagram, $\overline{AB} \parallel \overline{CD}$ and the measure of $\angle AGF = 112^\circ$.



What is the measure of $\angle FGB$?

- A. 22°
- B. 68°
- C. 112°
- D. 248°

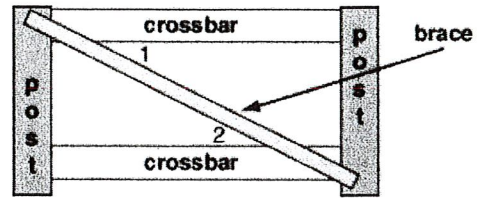
2. The two rectangles shown below are cut by transversal l . The measure of $\angle 1$ is 58° .



What is the measure of $\angle 8$?

- A. 32°
- B. 58°
- C. 90°
- D. 148°

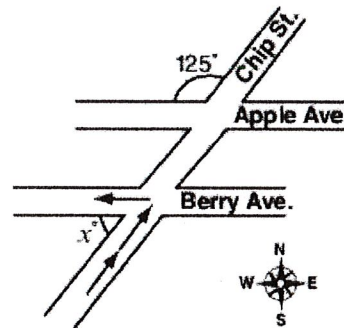
3. A wooden gate is shown in the diagram. The two crossbars are parallel.



Which term best describes the relationship of $\angle 1$ and $\angle 2$?

- A. vertical angles
- B. corresponding angles
- C. alternate interior angles
- D. alternate exterior angles

4. Jasper was riding his bicycle northeast on Chip Street toward Berry Avenue. He turned west onto Berry Avenue.



If Apple Avenue and Berry Avenue are parallel, what is the measure of the angle of the turn that Jasper made?

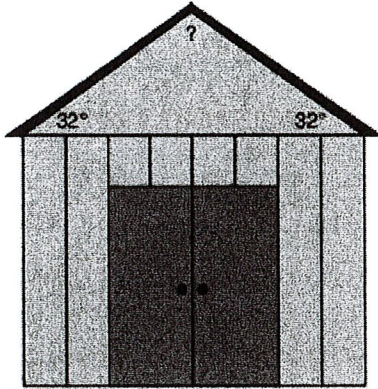
- A. 55°
- B. 70°
- C. 125°
- D. 180°

5. If two parallel lines are cut by a transversal, which word describes any pair of corresponding angles?

- A. vertical
- B. congruent
- C. supplementary
- D. complementary

Name: _____

6. Ms. McMahon is building a shed as shown.

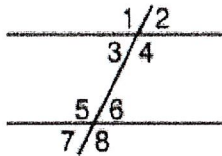


The diagram is not drawn to scale.

What is the measure of the angle at the top of the shed?

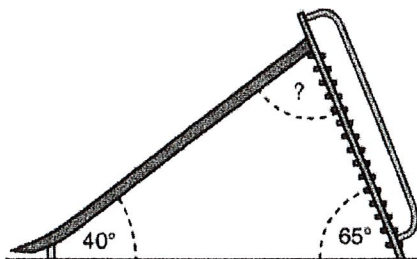
- A. 32°
- B. 64°
- C. 116°
- D. 126°

7. Which term describes the relationship between $\angle 1$ and $\angle 8$?



- A. alternate exterior angles
- B. alternate interior angles
- C. corresponding angles
- D. vertical angles

8. A playground equipment company is making this slide:

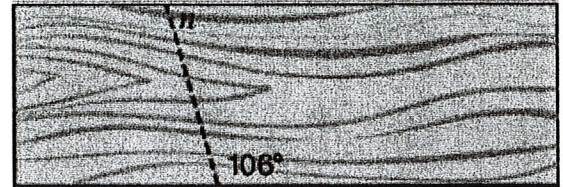


The diagram is not drawn to scale.

What is the measure of the angle at the top of the slide?

- A. 52.5°
- B. 75°
- C. 90°
- D. 105°

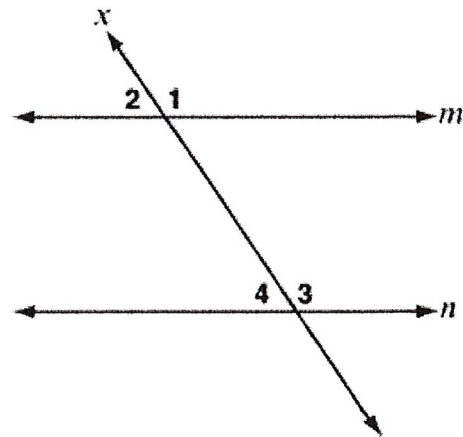
9. For a woodworking project, Celeste cut this rectangular piece of wood along the dotted line.



What is the measure of the angle labeled n ?

- A. 52°
- B. 74°
- C. 106°
- D. 128°

10. Two parallel lines m and n are cut by transversal x .

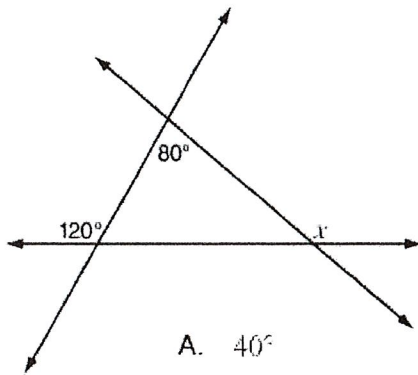


What is the measure of $\angle 4$ if the measure of $\angle 1 = 110^\circ$?

- A. 50°
- B. 70°
- C. 110°
- D. 180°

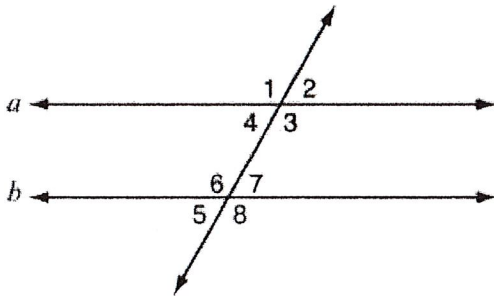
Name: _____

11. What is the measure of x ?



- A. 40°
- B. 60°
- C. 120°
- D. 140°

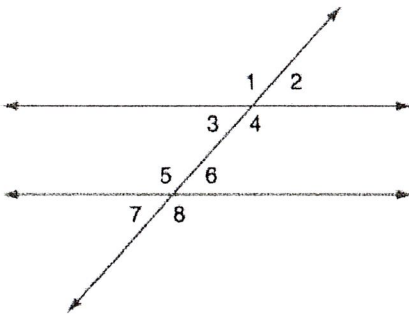
12. In the diagram below, line a is parallel to line b and $m\angle 3 = 120^\circ$.



What is $m\angle 6$?

- A. $m\angle 6 = 60^\circ$
- B. $m\angle 6 = 90^\circ$
- C. $m\angle 6 = 120^\circ$
- D. $m\angle 6 = 180^\circ$

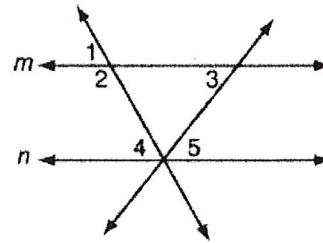
13. Calvin dropped a pencil on his hardwood floor. The pencil formed the following angles with the parallel sides of a floorboard.



Which of the following lists a pair of congruent angles?

- A. $\angle 1$ and $\angle 2$
- B. $\angle 2$ and $\angle 8$
- C. $\angle 3$ and $\angle 5$
- D. $\angle 4$ and $\angle 8$

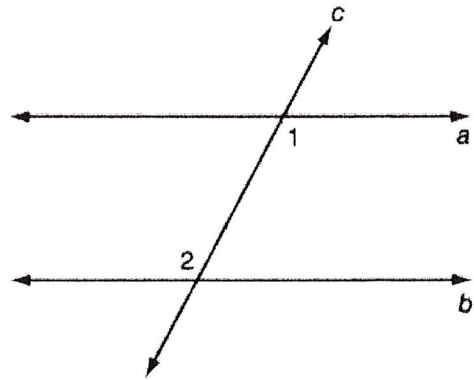
14. In the diagram below, lines m and n are parallel, and the measure of $\angle 1$ is 75° .



Which other angle also **must** have a measure of 75° ?

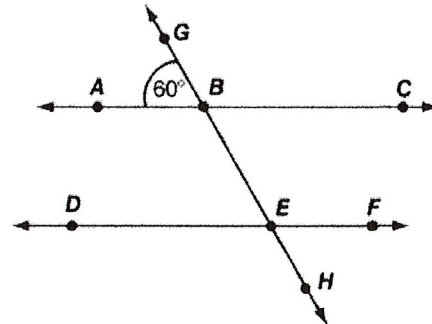
- A. $\angle 2$
- B. $\angle 3$
- C. $\angle 4$
- D. $\angle 5$

15. If $a \parallel b$, $m\angle 1 = 115^\circ$, and $m\angle 2 = (2x + 3)^\circ$, what is the value of x ?



- A. 31
- B. 56
- C. 59
- D. 149

16. \overline{AC} is parallel to \overline{DF} , and \overline{GH} is a transversal. The measure of $\angle ABG$ is 60° .



What is the sum of $\angle FEH$ and $\angle CBA$?

- A. 120°
- B. 180°
- C. 240°
- D. 300°