

Geometry Week 8 Monday - Warm-up

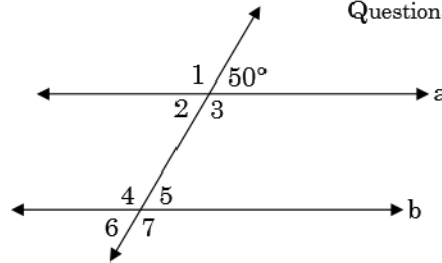
Parallel & Perpendicular Lines 6 – Angle Relationships

pg. 3.06

Questions 1-6

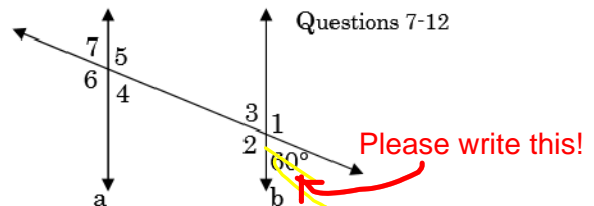
Find the angle measure: $a \parallel b$

- 1. $m\angle 3 =$
- 2. $m\angle 4 =$
- 3. $m\angle 2 =$
- 4. $m\angle 5 =$
- 5. $m\angle 6 =$
- 6. $m\angle 1 =$



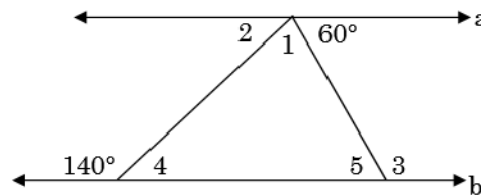
$a \parallel b$

- 7. $m\angle 1 =$
- 8. $m\angle 6 =$
- 9. $m\angle 5 =$
- 10. $m\angle 7 =$
- 11. $m\angle 3 =$
- 12. $m\angle 2 =$



$a \parallel b$

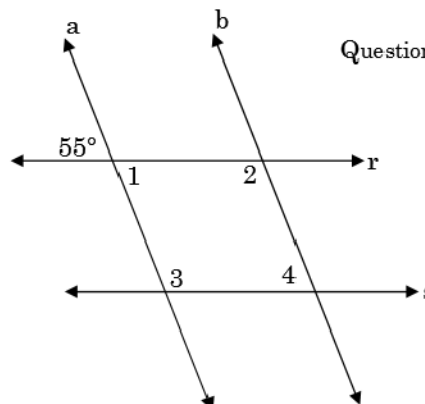
- 13. $m\angle 4 =$
- 14. $m\angle 3 =$
- 15. $m\angle 5 =$
- 16. $m\angle 2 =$
- 17. $m\angle 1 =$
- 18. $m\angle 1 + m\angle 4 + m\angle 5 =$
- 19. $m\angle 1 + m\angle 5 =$
- 20. $m\angle 1 + m\angle 4 =$



Questions 13-20

$a \parallel b$ and $r \parallel s$

- 21. $m\angle 2 =$
- 22. $m\angle 4 =$
- 23. $m\angle 1 =$
- 24. $m\angle 3 =$
- 25. $m\angle 1 + m\angle 2 + m\angle 3 + m\angle 4 =$

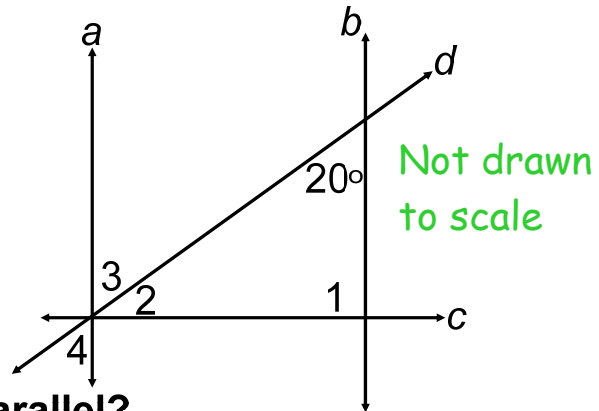


Questions 21-25

Selected Scrambled Answers: $80^\circ, 40^\circ, 125^\circ, 120^\circ, 50^\circ, 60^\circ, 55^\circ, 130^\circ, 180^\circ, 140^\circ, 360^\circ$

Week 8 Tuesday

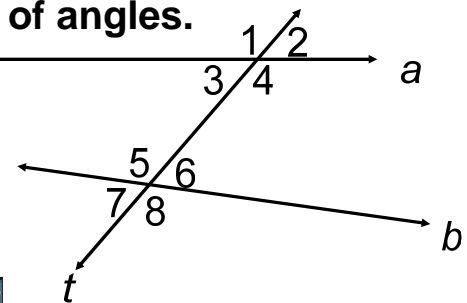
Given: $a \parallel b$, $a \perp c$, find
 $m\angle 1$, $m\angle 2$, $m\angle 3$, $m\angle 4$



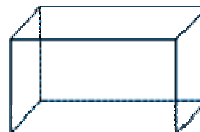
2. a. What is the symbol for parallel?
 b. What is the symbol for perpendicular?

3. State the relationship between the pairs of angles.

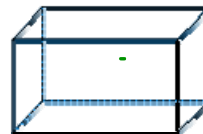
- a. $\angle 1$ & $\angle 8$
 - b. $\angle 2$ & $\angle 3$
 - c. $\angle 2$ & $\angle 6$
 - d. $\angle 7$ & $\angle 8$
- lines a and b are cut by transversal t .



4. Indicate two parallel planes.

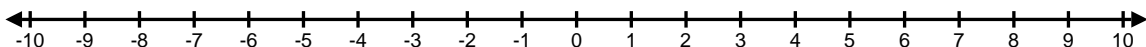


5. Indicate two lines parallel to the same plane that are not parallel to each other.



6. Solve the following inequality and graph on the number line.

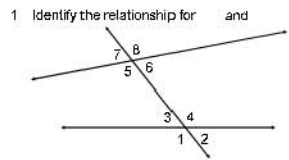
$$-2(3 + m) - 2 > 6$$



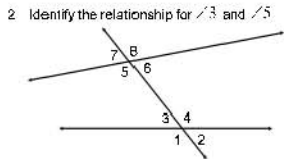
Week 8 Block Day Warm-up - Page 1

Angle Relationships

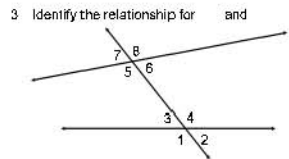
Grade: 9-12
Subject: Mathematics
Date: «date»



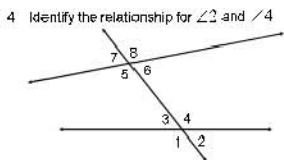
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none



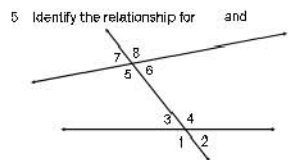
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none



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- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none



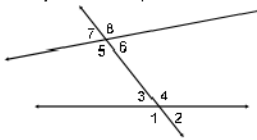
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none



- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none

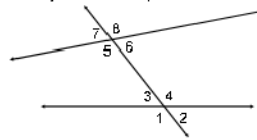
Week 8 Block Day Warm-up - Page 2

6 Identify the relationship for $\angle 5$ and $\angle 8$



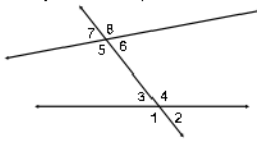
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- I none

7 Identify the relationship for $\angle 5$ and $\angle 8$



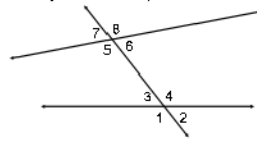
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- I none

8 Identify the relationship for $\angle 1$ and $\angle 7$



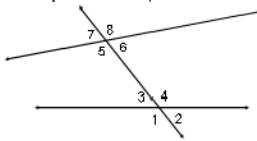
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none

9 Identify the relationship for $\angle 1$ and $\angle 7$



- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none

10 Identify the relationship for $\angle 5$ and $\angle 2$



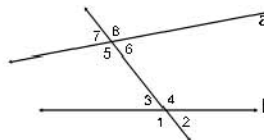
- A corresponding
- B vertical
- C alternate interior
- D alternate exterior
- E same-side-exterior
- F same-side interior
- G linear pair
- H none

Week 8 Friday Warm-up - Page 1

Are lines parallel?

Grade: 9-12
Subject: Mathematics

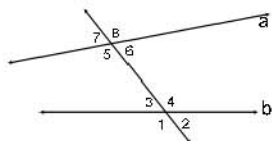
1 Given $\angle 7 \cong \angle 3$



Is $a \parallel b$?

Yes No

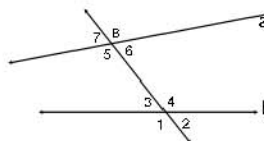
2 Given $\angle 7 \cong \angle 4$



Is $a \parallel b$?

Yes No

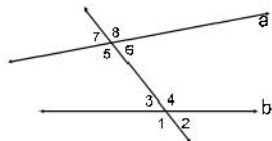
3 Given $\angle 6 \cong \angle 4$



Is $a \parallel b$?

Yes No

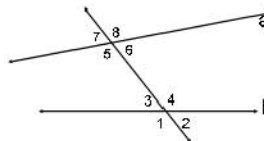
4 Given $\angle 1 \cong \angle 8$



Is $a \parallel b$?

Yes No

5 Given $\angle 5$ is supplementary to $\angle 3$

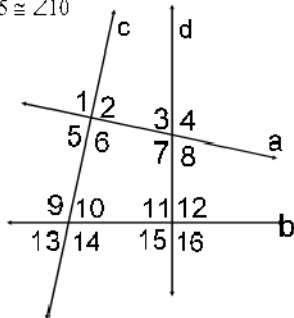


Is $a \parallel b$?

Yes No

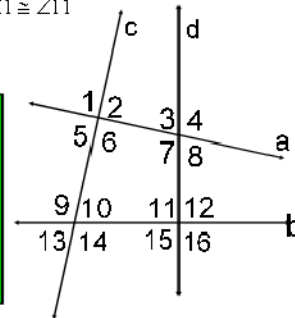
6 Which lines, if any, are parallel?
Given: $\angle 5 \cong \angle 10$

- A $a \parallel b$
- B $c \parallel d$
- C $a \parallel d$
- D $b \parallel c$
- E none



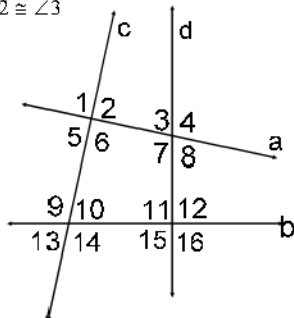
7 Which lines, if any, are parallel?
Given: $\angle 1 \cong \angle 11$

- A $a \parallel b$
- B $c \parallel d$
- C $a \parallel d$
- D $b \parallel c$
- E none



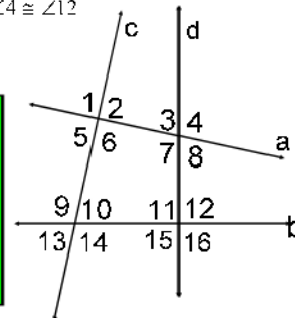
8 Which lines, if any, are parallel?
Given: $\angle 2 \cong \angle 3$

- A $a \parallel b$
- B $c \parallel d$
- C $a \parallel d$
- D $b \parallel c$
- E none



9 Which lines, if any, are parallel?
Given: $\angle 4 \cong \angle 12$

- A $a \parallel b$
- B $c \parallel d$
- C $a \parallel d$
- D $b \parallel c$
- E none



10 Which lines, if any, are parallel?
Given:
 $\angle 10$ is supplementary to $\angle 11$

- A $a \parallel b$
- B $c \parallel d$
- C $a \parallel d$
- D $b \parallel c$
- E none

