

Name: _____ Hour: _____

JUSTIFICATION PRACTICE

If we know we have // lines:

// lines form _____ consecutive interior angles

// lines form _____ corresponding angles

// lines form _____ alternate Interior angles

// lines form _____ alternate Exterior angles

If we want to PROVE parallel lines:

_____ consecutive interior angles form _____

_____ corresponding angles form _____

_____ alternate interior angles form _____

_____ alternate exterior angles form _____

Other justifications:

Linear pairs are _____ vertical angles are _____

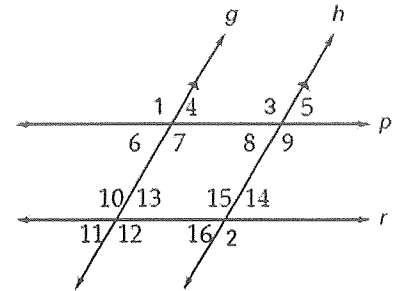
Def of \perp Def of Compl. Def of Suppl. Def of \angle bisector Def of right angle CLT

angle addition Addition substitution/transitive division subtraction multiplication

Examples:

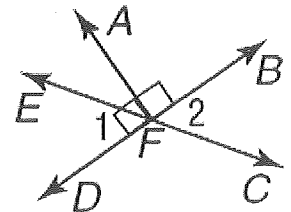
Part A. Directions: Use the parallel justifications correctly for the figure.

1. If $g//h$, what justifies $\angle 3 \cong \angle 1$?
2. If $g//h$, what justifies $\angle 4 \cong \angle 8$?
3. If $g//h$, what justifies $\angle 10 \cong \angle 2$?
4. If $g//h$, what justifies $\angle 7 + \angle 8 = 180$?
5. If $\angle 15 \cong \angle 9$, what justifies $p // r$?
6. If $\angle 1 \cong \angle 12$, what justifies $p // r$?
7. If $\angle 6 \cong \angle 11$, what justifies $p // r$?
8. If $\angle 14 + \angle 9 = 180$, what justifies $p // r$?



Part B. Directions: Use the angle justifications correctly for the figure.

1. What justifies $\angle 1 \cong \angle 2$?
2. What justifies $\angle 1 + \angle EFA = \angle DFA$?
3. What justifies $\angle AFB = 90^\circ$?
4. What justifies $\angle 2 + \angle DFC = 180^\circ$?
5. What justifies $\angle EFB \cong \angle CFD$?



Part C. Directions: Use the justifications correctly for the situation.

1. What justifies $\angle 1 \cong \angle 2, \angle 3 \cong \angle 2$, then $\angle 1 \cong \angle 3$?
2. What justifies $3x = 15$, then $x = 5$?
3. What justifies $x + 10 = 15$, then $x = 5$?
4. What justifies $x - 10 = 15$, then $x = 25$?
5. What justifies $\frac{1}{2}x = 15$, then $x = 30$?
6. What justifies $2x + 7x + 10 = 3$, then $9x + 10 = 3$?

Name: Key Hour: _____

JUSTIFICATION PRACTICE

If we know we have // lines:

- // lines form Suppl. consecutive interior angles
- // lines form 211 corresponding angles
- // lines form 211 alternate Interior angles
- // lines form 211 alternate Exterior angles

If we want to PROVE parallel lines:

- Suppl. consecutive interior angles form // lines
- 211 corresponding angles form // lines
- 211 alternate interior angles form // lines
- 211 alternate exterior angles form // lines

Other justifications:

Linear pairs are Suppl. vertical angles are 211

Def of \perp Def of Compl. Def of Suppl. Def of \angle bisector Def of right angle CLT

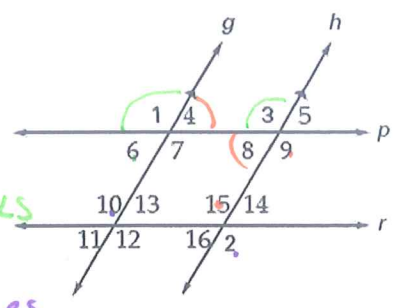
angle addition Addition substitution/transitive division subtraction multiplication

Examples:

Part A. Directions: Use the parallel justifications correctly for the figure.

1. If $g//h$, what justifies $\angle 3 \cong \angle 1$?
// lines form \cong corr. \angle s
3. If $g//h$, what justifies $\angle 10 \cong \angle 2$?
// lines form \cong alt. ext. \angle s
5. If $\angle 15 \cong \angle 9$, what justifies $p // r$?
 \cong alt. int. \angle s form // lines
7. If $\angle 6 \cong \angle 11$, what justifies $p // r$?
 \cong corr. \angle s form // lines

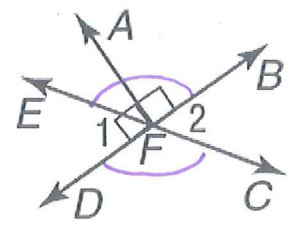
2. If $g//h$, what justifies $\angle 4 \cong \angle 8$?
// lines form \cong alt. int. \angle s
4. If $g//h$, what justifies $\angle 7 + \angle 8 = 180$?
// lines form Suppl. con. int. \angle s
6. If $\angle 1 \cong \angle 12$, what justifies $p // r$?
 \cong alt. ext. \angle s form // lines.
8. If $\angle 14 + \angle 9 = 180$, what justifies $p // r$?
Suppl. con. int. \angle s form // lines



Part B. Directions: Use the angle justifications correctly for the figure.

1. What justifies $\angle 1 \cong \angle 2$?
vertical \angle s are \cong
3. What justifies $\angle AFB = 90^\circ$?
def of \perp or Right \angle
5. What justifies $\angle EFB \cong \angle CFD$?
vertical \angle s are \cong

2. What justifies $\angle 1 + \angle EFA = \angle DFA$?
angle addition
4. What justifies $\angle 2 + \angle DFC = 180^\circ$?
linear pairs are suppl.



Part C. Directions: Use the justifications correctly for the situation.

1. What justifies $\angle 1 \cong \angle 2, \angle 3 \cong \angle 2$, then $\angle 1 \cong \angle 3$?
Substitution
3. What justifies $x + 10 = 15$, then $x = 5$?
Subtraction
5. What justifies $\frac{1}{2}x = 15$, then $x = 30$?
multiplication

2. What justifies $3x = 15$, then $x = 5$?
division
4. What justifies $x - 10 = 15$, then $x = 25$?
addition
6. What justifies $2x + 7x + 10 = 3$, then $9x + 10 = 3$?
CLT