$\qquad$ Date $\qquad$
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## LEsson Angles Formed by Intersecting Lines <br> Practice and Problem Solving: A/B

1. $\angle P Q R$ and $\angle S Q R$ form a linear pair. Find the sum of their measures. $\qquad$
2. Name the ray that $\angle P Q R$ and $\angle S Q R$ share. $\qquad$
Use the figures for Problems 3-8.
3. supplement of $\angle A E B$
4. complement of $\angle A E B$

5. $x=$ $\qquad$ 6. $y=$ $\qquad$
6. $\mathrm{m} \angle D E C=$ $\qquad$ 8. $\mathrm{m} \angle A E D=$ $\qquad$
7. $\angle D E F$ and $\angle F E G$ are complementary. $\mathrm{m} \angle D E F=(3 x-4)^{\circ}$, and $\mathrm{m} \angle F E G=(5 x+6)^{\circ}$.

Find the measures of both angles.
10. $\angle D E F$ and $\angle F E G$ are supplementary. $\mathrm{m} \angle D E F=(9 x+1)^{\circ}$, and $\mathrm{m} \angle F E G=(8 x+9)^{\circ}$.

Find the measures of both angles.

## Use the figure for Problems 11 and 12.

In 2004, several nickels were minted to commemorate the Louisiana Purchase and Lewis and Clark's expedition into the American West. One nickel shows a pipe and a hatchet crossed to symbolize peace between the American government and Native American tribes.
11. Name a pair of vertical angles.
12. Name a linear pair of angles.

$\qquad$
13. $\angle A B C$ and $\angle C B D$ form a linear pair and have equal measures. Tell if $\angle A B C$ is acute, right, or obtuse. $\qquad$
14. $\angle K L M$ and $\angle M L N$ are complementary. $\overrightarrow{L M}$ bisects $\angle K L N$. Find the measures of $\angle K L M$ and $\angle M L N$. $\qquad$

## UNIT 2 Lines, Angles and Triangles

## MODULE 4 Lines and Angles

## LESSON 4-1

Practice and Problem Solving: A/B

1. $180^{\circ}$
2. $\overrightarrow{Q R}$
3. $130^{\circ}$
4. $40^{\circ}$
5. 35
6. 100
7. $50^{\circ}$
8. $130^{\circ}$
9. $\mathrm{m} \angle D E F=29^{\circ} ; \mathrm{m} \angle F E G=61^{\circ}$
10. $\mathrm{m} \angle D E F=91^{\circ} ; \mathrm{m} \angle F E G=89^{\circ}$
11. Possible answers: $\angle 1$ and $\angle 3$ or $\angle 2$ and $\angle 4$
12. Possible answers: $\angle 1$ and $\angle 2 ; \angle 2$ and $\angle 3 ; \angle 3$ and $\angle 4$; or $\angle 1$ and $\angle 4$
13. right
14. $45^{\circ} ; 45^{\circ}$

## Practice and Problem Solving: C

1-3. Possible answer:

4. The measures of the vertical angles are equal.
5. a. $\angle 1 \cong \angle 2$
b. $\mathrm{m} \angle 1=\mathrm{m} \angle 2$
c. $\angle 2$ and $\angle 4$ are compl.
d. Given
e. $m \angle 2+m \angle 4=90^{\circ}$
f. Defn. Comp. $\angle s$
g. $m \angle 1+m \angle 3=m \angle 2+m \angle 4$

## Practice and Problem Solving: Modified

1. complementary angles
2. vertical angles
3. supplementary angles; linear pair
4. right angle
5. $90^{\circ}$
6. $20^{\circ}$
7. $40^{\circ} ; 140^{\circ}$
8. $120^{\circ}$
9. $30^{\circ}$
10. Possible answer:

11. Possible answer:


## Reading Strategies

1. complementary
2. vertical
3. supplementary
4. linear, adjacent, or supplementary
5. adjacent
6. complementary

## Success for English Learners

1. complementary
2. $103.7^{\circ}$

## LESSON 4-2

Practice and Problem Solving: A/B

1. $47^{\circ}$
2. $119^{\circ}$
3. $97^{\circ}$
