

LESSON
1-4

Problem Solving

Pairs of Angles

Use the drawing of part of the Eiffel Tower for Exercises 1–5.

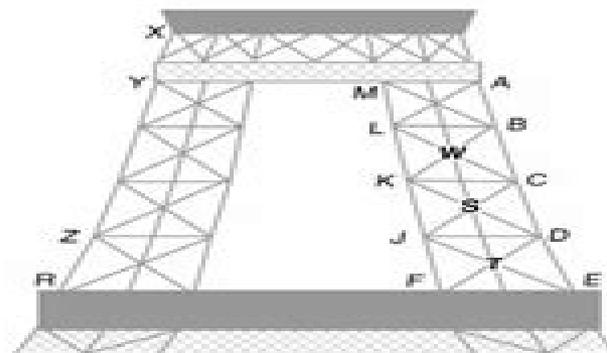
1. Name a pair of angles that appear to be complementary.

2. Name a pair of supplementary angles.

3. If $m\angle CSW = 45^\circ$, what is $m\angle JST$? How do you know?

4. If $m\angle FKB = 135^\circ$, what is $m\angle BKL$? How do you know?

5. Name three angles whose measures sum to 180° .



Choose the best answer.

6. A landscaper uses paving stones for a walkway. Which are possible angle measures for a° and b° so that the stones do not have space between them?

A $50^\circ, 100^\circ$	C $75^\circ, 105^\circ$
B $45^\circ, 45^\circ$	D $90^\circ, 80^\circ$
7. The angle formed by a tree branch and the part of the trunk above it is 68° . What is the measure of the angle that is formed by the branch and the part of the trunk below it?

F 22°	H 158°
G 112°	J 180°
8. $\angle R$ and $\angle S$ are complementary. If $m\angle R = (7 + 3x)^\circ$ and $m\angle S = (2x + 13)^\circ$, which is a true statement?

A $\angle R$ is acute.	C $\angle R$ and $\angle S$ are right angles.
B $\angle R$ is obtuse.	D $m\angle S > m\angle R$



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