LESSON MAKER PRO

Angle Pieces

Find missing angles by adding and subtracting.

GRADE 4 · 4.M.B.26.a

4.M.B.26.a "Solve addition and subtraction problems on a diagram to find unknown angles in real-world or mathematical problems."

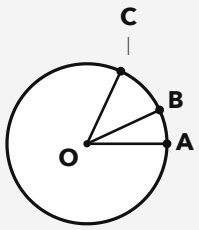
NAME _____ DATE _____

PARTS MAKE A WHOLE

When angles meet without overlapping, add their measures to find the whole angle. To find a missing part, subtract the known part from the whole.

WORKED EXAMPLE

In the diagram, angle AOB is 25° and angle BOC is 40°. Find angle AOC.



1. Angle AOC is made of angles AOB and BOC.
2. 25° + 40° = 65°.

Answer: 65°

PRACTICE 4 problems

1 Two angles that do not overlap measure 32° and 28°. What is their combined measure?

ANSWER _____

2 A 90° angle is split into a 47° angle and a missing angle. Find the missing angle.

ANSWER _____

3 A straight angle is split into a 112° angle and a missing angle. Find the missing angle.

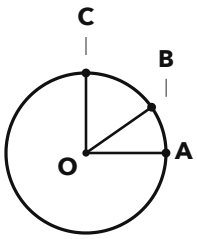
ANSWER _____

4 A 125° angle is split into a 38° angle and a missing angle. Find the missing angle.

ANSWER _____

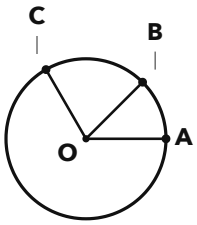
APPLY IT Show your work

1 On a game spinner, angle AOC is 90° and angle AOB is 35°. Find angle BOC.



ANSWER _____

2 A robot's turning dial shows angle AOC as 120° and angle BOC as 75°. Find angle AOB.



ANSWER _____

CHALLENGE One step up

A straight angle is split into three angles. Two measure 46° and 73°. Find the third angle. Show your subtraction.

WORK SPACE AND ANSWER

ANSWER KEY

Angle Pieces

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Two angles that do not overlap measure 32° and 28°. What is their combined measure?	**60°**
2	A 90° angle is split into a 47° angle and a missing angle. Find the missing angle.	**43°**
3	A straight angle is split into a 112° angle and a missing angle. Find the missing angle.	**68°**
4	A 125° angle is split into a 38° angle and a missing angle. Find the missing angle.	**87°**

PART 2 · APPLY IT

1. **55°** Subtract the known part from the whole: 90° - 35° = 55°.
2. **45°** Subtract angle BOC from angle AOC: 120° - 75° = 45°.

CHALLENGE

61°; 180° - 46° - 73° = 61°.

Accept any correct addition or subtraction equation. A straight angle measures 180°.