LESSON MAKER PRO

Angle Pieces

Find the missing part of an angle.

GRADE 4 · 4.GR.B.7

4.GR.B.7 "Explain that when an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts..."

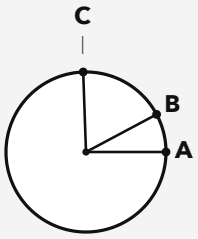
NAME _____ DATE _____

ADD THE PARTS

When an angle is split into parts that do not overlap, the part measures add up to the whole angle. To find a missing part, subtract the known part from the whole.

WORKED EXAMPLE

In the diagram, angle AOC is 92° and angle AOB is 28°. Find angle BOC.



1. Write the parts: 28° + ___° = 92°.
2. Subtract: 92° - 28° = 64°.

Answer: Angle BOC is 64°.

PRACTICE 4 problems

1 A 103° angle is split into a 38° angle and a missing angle. Find the missing angle.

ANSWER _____

2 An angle is split into parts of 37° and 56°. Find the whole angle.

ANSWER _____

3 A 142° angle is split into a 68° angle and a missing angle. Find the missing angle.

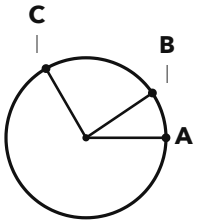
ANSWER _____

4 An angle is split into parts of 19° and 82°. Find the whole angle.

ANSWER _____

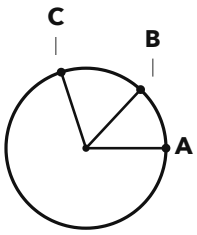
APPLY IT Show your work

1 A player aims from O toward spots on a round game board. Angle AOC is 120° and angle AOB is 34°. Find angle BOC.



ANSWER _____

2 Three cuts run from the center of a pizza toward A, B, and C. Angle AOB is 47° and angle BOC is 61°. Find angle AOC.



ANSWER _____

CHALLENGE One step up

A 137° angle is split into three parts. Two parts measure 36° and 48°. Find the third part. Show an equation with ___ for the missing measure.

WORK SPACE AND ANSWER

ANSWER KEY

Angle Pieces

GRADE 4 · 4.GR.B.7

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A 103° angle is split into a 38° angle and a missing angle. Find the missing angle.	**65°**
2	An angle is split into parts of 37° and 56°. Find the whole angle.	**93°**
3	A 142° angle is split into a 68° angle and a missing angle. Find the missing angle.	**74°**
4	An angle is split into parts of 19° and 82°. Find the whole angle.	**101°**

PART 2 · APPLY IT

1. **86°** B lies between A and C, so subtract the known part from the whole: 120° - 34° = 86°.
2. **108°** Add the two parts: 47° + 61° = 108°.

CHALLENGE

53°; 36° + 48° + ___° = 137°.

For the challenge, accept any correct equation showing that the three parts total 137°, including 137° - 36° - 48° = ___°.