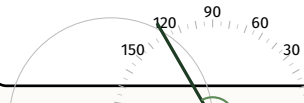


Push Tasks



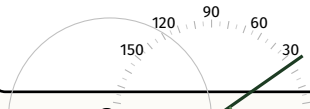
1. Sarah measured this angle and said it is 60° .



2. Tom measured an angle and got 130° but the correct answer was 50° .



3. Mia says this angle is 35° .



4. Describe the steps to use a protractor to measure $\angle ABC$. Step 1:

_____ Step 2:

_____ Step 3:

5. Describe how to construct an angle of 75° using a protractor.

6. A student says "I measured and got 142° , so the angle is acute." Is this correct? Explain.

7. In this diagram, $\angle AOB = 30^\circ$ and $\angle BOC = 50^\circ$.

B

8. The reflex angle around point O from OA to OC is 250° .

C B

9. Three rays divide a full turn (360°).
 $\angle AOB = 85^\circ$,
 $\angle BOC = 95^\circ$. Find

Push Tasks



10. Estimate $\angle AOB$ in this diagram, then explain how you would measure it.

13. A student placed the protractor centre at the wrong point. They measured:

120, 90, 60

16. A clock shows 2:00. The hour hand points at 2, the minute hand at 12. Without

11. A builder needs to measure the angle of a roof slope. The bubble level shows horizontal. The protractor reads

14. You measure an angle as 47° . Your friend also measures it and gets 43° . Give two possible reasons for

17. A pizza is cut into 8 equal slices. What is the angle at the tip of each slice? Describe

12. Two walls meet. You place a protractor and measure 87° . The plans show the room should have 90°

15. Prove: If $\angle AOB$ is acute and $\angle BOC$ is acute, then $\angle AOC$ must be either acute or obtuse (not reflex).

18. The hour hand moves from 2 to 5. What angle does it sweep through?

Push Tasks



19. You measure $\angle A$ as 67° on the inner scale. What would the outer scale read at the same position? Explain.

22. $\angle AOB$ is marked as 36° . $\angle BOC$ as 72° .
 $\angle COD$ as 54° .

C

25. Explain why measuring an angle from a printed worksheet with a

20. You need to draw a 215° angle. Describe how you would do this with a protractor (only $0-180^\circ$ scale).

23. In the diagram, $\angle AOC = 155^\circ$ and $\angle AOB = 60^\circ$. Find $\angle BOC$.

120 90 60

26. A clock shows 3:40. Calculate the angle between the hour and minute hands (smaller

21. A triangle has angles that measure 47° , 62° , and the third is unknown. The student measures the third

24. Design a 3-step checklist for using a protractor correctly. 1.
_____ 2.

3

27. Create an angle problem: Draw two rays from a point with a third ray between