

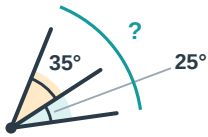
Find the Whole Angle: Addition

Grade 5 • Add adjacent angle measures

Name: _____ Date: _____

Directions: The two parts sit side by side at the same vertex. Add them to find the whole angle, marked ?.

1.



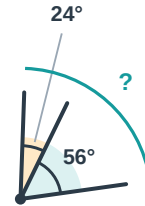
$$25^\circ + 35^\circ = \underline{\hspace{2cm}}^\circ$$

2.



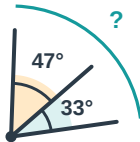
$$42^\circ + 18^\circ = \underline{\hspace{2cm}}^\circ$$

3.



$$56^\circ + 24^\circ = \underline{\hspace{2cm}}^\circ$$

4.



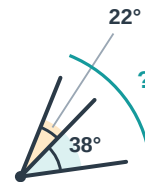
$$33^\circ + 47^\circ = \underline{\hspace{2cm}}^\circ$$

5.



$$61^\circ + 29^\circ = \underline{\hspace{2cm}}^\circ$$

6.



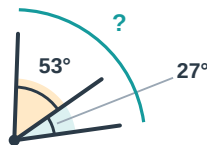
$$38^\circ + 22^\circ = \underline{\hspace{2cm}}^\circ$$

7.



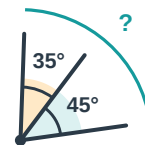
$$74^\circ + 16^\circ = \underline{\hspace{2cm}}^\circ$$

8.



$$27^\circ + 53^\circ = \underline{\hspace{2cm}}^\circ$$

9.



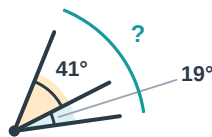
$$45^\circ + 35^\circ = \underline{\hspace{2cm}}^\circ$$

10.



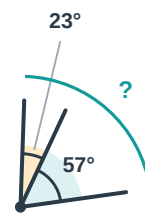
$$68^\circ + 12^\circ = \underline{\hspace{2cm}}^\circ$$

11.



$$19^\circ + 41^\circ = \underline{\hspace{2cm}}^\circ$$

12.



$$57^\circ + 23^\circ = \underline{\hspace{2cm}}^\circ$$

Remember part + part = whole. The two parts share the vertex and the middle side.

Check your answer against the picture: the whole angle must look bigger than either part.

Answer Key

Find the Whole Angle: Addition

Answers

- | | | | | | |
|---|------------|---|------------|-----------------------------|------------|
| 1. $25^\circ + 35^\circ =$ | 60° | 2. $42^\circ + 18^\circ =$ | 60° | 3. $56^\circ + 24^\circ =$ | 80° |
| 4. $33^\circ + 47^\circ =$ | 80° | 5. $61^\circ + 29^\circ =$
a right angle | 90° | 6. $38^\circ + 22^\circ =$ | 60° |
| 7. $74^\circ + 16^\circ =$
a right angle | 90° | 8. $27^\circ + 53^\circ =$ | 80° | 9. $45^\circ + 35^\circ =$ | 80° |
| 10. $68^\circ + 12^\circ =$ | 80° | 11. $19^\circ + 41^\circ =$ | 60° | 12. $57^\circ + 23^\circ =$ | 80° |

Teaching note

Items 5 and 7 total 90° , so those two parts make a right angle. Worth pausing on — it is the first time the parts add to something a student can name.

Every total here is 60° , 80° or 90° . If an answer is not one of those three, it is worth a second look.