

\*Show all work!

Due Date \_\_\_\_\_

Hour \_\_\_\_\_

Name \_\_\_\_\_

# Find the Missing Angle Maze 1

Start

The maze consists of a grid of paths. The starting point is a knight on a horse. The paths are defined by arrows with angles and triangles with missing angles marked with 'X'. The angles and missing angles are as follows:

- Top row:  $110^\circ$ ,  $35^\circ$ ,  $X$ ,  $35^\circ$ ,  $47^\circ$
- Second row:  $60^\circ$ ,  $120^\circ$ ,  $45^\circ$ ,  $70^\circ$ ,  $133^\circ$ ,  $87^\circ$ ,  $X$ ,  $46^\circ$
- Third row:  $60^\circ$ ,  $120^\circ$ ,  $60^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Fourth row:  $60^\circ$ ,  $120^\circ$ ,  $60^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Fifth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Sixth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Seventh row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Eighth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Ninth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Tenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Eleventh row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Twelfth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Thirteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Fourteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Fifteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Sixteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Seventeenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Eighteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Nineteenth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$
- Twentieth row:  $50^\circ$ ,  $60^\circ$ ,  $40^\circ$ ,  $130^\circ$ ,  $50^\circ$ ,  $60^\circ$ ,  $X$ ,  $60^\circ$

Finish

Name \_\_\_\_\_

# Find the Missing Angle Maze 2

Start

The maze consists of a grid of paths and dead ends. The paths are marked with arrows containing angle values. The dead ends are marked with triangles containing missing angles (X) and some known angles. The goal is to find a path from the 'Start' to the 'Finish'.

Start (Bottom Right): Triangle with angles  $45^\circ$ ,  $45^\circ$ , and  $X$ . Arrow pointing left:  $180^\circ$ .

Path 1 (Right): Arrow pointing up:  $40^\circ$ . Triangle with angles  $80^\circ$ ,  $50^\circ$ , and  $X$ . Arrow pointing left:  $98^\circ$ .

Path 2 (Right): Arrow pointing up:  $50^\circ$ . Triangle with angles  $56^\circ$ ,  $41^\circ$ , and  $X$ . Arrow pointing left:  $83^\circ$ .

Path 3 (Right): Arrow pointing up:  $47^\circ$ . Triangle with angles  $50^\circ$ ,  $63^\circ$ , and  $X$ . Arrow pointing left:  $13^\circ$ .

Path 4 (Middle-Right): Arrow pointing up:  $80^\circ$ . Triangle with angles  $41^\circ$ ,  $X$ , and  $53^\circ$ . Arrow pointing left:  $47^\circ$ .

Path 5 (Middle-Right): Arrow pointing up:  $94^\circ$ . Triangle with angles  $130^\circ$ ,  $25^\circ$ , and  $X$ . Arrow pointing left:  $155^\circ$ .

Path 6 (Middle-Right): Arrow pointing up:  $97^\circ$ . Triangle with angles  $20^\circ$ ,  $20^\circ$ , and  $X$ . Arrow pointing left:  $140^\circ$ .

Path 7 (Middle): Arrow pointing up:  $105^\circ$ . Triangle with angles  $40^\circ$ ,  $85^\circ$ , and  $X$ . Arrow pointing left:  $55^\circ$ .

Path 8 (Middle): Arrow pointing up:  $125^\circ$ . Triangle with angles  $64^\circ$ ,  $64^\circ$ , and  $X$ . Arrow pointing left:  $55^\circ$ .

Path 9 (Middle): Arrow pointing up:  $94^\circ$ . Triangle with angles  $65^\circ$ ,  $60^\circ$ , and  $X$ . Arrow pointing left:  $136^\circ$ .

Path 10 (Middle): Arrow pointing up:  $100^\circ$ . Triangle with angles  $60^\circ$ ,  $X$ , and  $60^\circ$ . Arrow pointing left:  $52^\circ$ .

Path 11 (Middle): Arrow pointing up:  $120^\circ$ . Triangle with angles  $55^\circ$ ,  $55^\circ$ , and  $X$ . Arrow pointing left:  $50^\circ$ .

Path 12 (Middle): Arrow pointing up:  $25^\circ$ . Triangle with angles  $50^\circ$ ,  $50^\circ$ , and  $X$ . Arrow pointing left:  $140^\circ$ .

Path 13 (Middle): Arrow pointing up:  $105^\circ$ . Triangle with angles  $75^\circ$ ,  $80^\circ$ , and  $X$ . Arrow pointing left:  $25^\circ$ .

Path 14 (Bottom-Right): Arrow pointing up:  $90^\circ$ . Triangle with angles  $120^\circ$ ,  $35^\circ$ , and  $X$ . Arrow pointing left:  $25^\circ$ .

Path 15 (Bottom-Right): Arrow pointing up:  $40^\circ$ . Triangle with angles  $45^\circ$ ,  $45^\circ$ , and  $X$ . Arrow pointing left:  $180^\circ$ .

Path 16 (Bottom): Arrow pointing up:  $45^\circ$ . Triangle with angles  $75^\circ$ ,  $80^\circ$ , and  $X$ . Arrow pointing left:  $25^\circ$ .

Path 17 (Bottom): Arrow pointing up:  $40^\circ$ . Triangle with angles  $66^\circ$ ,  $74^\circ$ , and  $X$ . Arrow pointing left:  $40^\circ$ .

Path 18 (Bottom): Arrow pointing up:  $58^\circ$ . Triangle with angles  $64^\circ$ ,  $64^\circ$ , and  $X$ . Arrow pointing left:  $58^\circ$ .

Path 19 (Bottom): Arrow pointing up:  $60^\circ$ . Triangle with angles  $55^\circ$ ,  $55^\circ$ , and  $X$ . Arrow pointing left:  $60^\circ$ .

Path 20 (Bottom): Arrow pointing up:  $50^\circ$ . Triangle with angles  $50^\circ$ ,  $50^\circ$ , and  $X$ . Arrow pointing left:  $50^\circ$ .

Finish (Bottom Left):

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