Musical Angles Adventure: Help the Orchestra Find Their Way!

Math   **Grade 4**   **Music Theme**

🎵 Help our musical friends solve angle problems as they navigate through their concert hall adventures!

NAME   **DATE**   **SCORE**
_____   _____   _____ / 8

1

Melody the violinist is tuning her instrument and needs to position her bow at the perfect angle. She starts at 0° and rotates her bow 45° clockwise, then another 35° clockwise. What is the total angle her bow has rotated?

2

Beatrice the drummer is setting up her drum kit for the big show. She positions her bass drum at a 90° angle to the floor. Then she adjusts it to 65°. How many degrees did she decrease the angle?

3

Three trumpet players—Tommy, Tina, and Terry—are standing in formation on stage. Tommy faces north (0°), Tina is 120° to the right of Tommy, and Terry is 100° to the right of Tina. What angle is Terry from Tommy's original direction?

4

Conductor Carlos is directing his orchestra with his baton. He makes a sweeping motion from 15° to 95°. How many degrees did his baton move during this dramatic gesture?

5

Sophia the pianist needs to adjust the angle of her music stand. It currently sits at 40° from horizontal. She increases the angle by 28° so she can see the sheet music better. What is the new angle?

6

Four singers are positioned in a circle on stage for their harmony performance. They are evenly spaced, which means each singer is separated by equal angles. If a full circle is 360°, what angle separates each singer from the next?

7

The orchestra is playing in a triangular concert hall with three spotlights. One angle of the triangle is 65°, another is 52°. What must the third angle be? (Hint: All angles in a triangle add up to 180°)

8

Maestro Marco is creating a special V-formation with his musicians. The left side of the V makes a 35° angle with the stage floor, and the right side makes a 35° angle as well. What is the total angle formed by both sides of the V?

Answer Key

1

Melody the violinist is tuning her instrument and needs to position her bow at the perfect angle. She starts at 0° and rotates her bow 45° clockwise, then another 35° clockwise. What is the total angle her bow has rotated?

ANSWER

80°

2

Beatrice the drummer is setting up her drum kit for the big show. She positions her bass drum at a 90° angle to the floor. Then she adjusts it to 65°. How many degrees did she decrease the angle?

ANSWER

25°

3

Three trumpet players—Tommy, Tina, and Terry—are standing in formation on stage. Tommy faces north (0°), Tina is 120° to the right of Tommy, and Terry is 100° to the right of Tina. What angle is Terry from Tommy's original direction?

ANSWER

220°

4

Conductor Carlos is directing his orchestra with his baton. He makes a sweeping motion from 15° to 95°. How many degrees did his baton move during this dramatic gesture?

ANSWER

80°

5

Sophia the pianist needs to adjust the angle of her music stand. It currently sits at 40° from horizontal. She increases the angle by 28° so she can see the sheet music better. What is the new angle?

ANSWER

68°

6

Four singers are positioned in a circle on stage for their harmony performance. They are evenly spaced, which means each singer is separated by equal angles. If a full circle is 360°, what angle separates each singer from the next?

ANSWER

90°

7

The orchestra is playing in a triangular concert hall with three spotlights. One angle of the triangle is 65°, another is 52°. What must the third angle be? (Hint: All angles in a triangle add up to 180°)

ANSWER

63°

8

Maestro Marco is creating a special V-formation with his musicians. The left side of the V makes a 35° angle with the stage floor, and the right side makes a 35° angle as well. What is the total angle formed by both sides of the V?

ANSWER

70°