

Unit Circle Speed Quiz

24 questions · exact values · no calculator · 5 minutes

Name _____ Date _____ Time _____ Score _____ / 24

- | | |
|-----------------------------|-----------------------------|
| 1 $\sin 30^\circ =$ _____ | 13 $\tan 135^\circ =$ _____ |
| 2 $\cos 60^\circ =$ _____ | 14 $\sin \pi/3 =$ _____ |
| 3 $\tan 45^\circ =$ _____ | 15 $\cos \pi/4 =$ _____ |
| 4 $\sin 90^\circ =$ _____ | 16 $\tan 4\pi/3 =$ _____ |
| 5 $\cos 180^\circ =$ _____ | 17 $\sin 300^\circ =$ _____ |
| 6 $\tan 0^\circ =$ _____ | 18 $\cos 270^\circ =$ _____ |
| 7 $\sin 5\pi/6 =$ _____ | 19 $\sin 7\pi/4 =$ _____ |
| 8 $\cos 7\pi/6 =$ _____ | 20 $\tan \pi =$ _____ |
| 9 $\sin 3\pi/2 =$ _____ | 21 $\cos 5\pi/3 =$ _____ |
| 10 $\cos 11\pi/6 =$ _____ | 22 $\sin 210^\circ =$ _____ |
| 11 $\sin 225^\circ =$ _____ | 23 $\tan 5\pi/6 =$ _____ |
| 12 $\cos 120^\circ =$ _____ | 24 $\sin \pi =$ _____ |

Start a 5-minute timer. Stop when it rings, then mark your answers on page 2.

Practise free online: [► Unit Circle Game](#) [► Practice Game](#) [► Circle Calculator](#)

Speed Quiz Answer Key

Mark your quiz, then find your band below.

ANSWERS

Exact values

- | | | |
|--------------------------------|------------------------------------|------------------------------------|
| 1. $\sin 30^\circ = 1/2$ | 9. $\sin 3\pi/2 = -1$ | 17. $\sin 300^\circ = -\sqrt{3}/2$ |
| 2. $\cos 60^\circ = 1/2$ | 10. $\cos 11\pi/6 = \sqrt{3}/2$ | 18. $\cos 270^\circ = 0$ |
| 3. $\tan 45^\circ = 1$ | 11. $\sin 225^\circ = -\sqrt{2}/2$ | 19. $\sin 7\pi/4 = -\sqrt{2}/2$ |
| 4. $\sin 90^\circ = 1$ | 12. $\cos 120^\circ = -1/2$ | 20. $\tan \pi = 0$ |
| 5. $\cos 180^\circ = -1$ | 13. $\tan 135^\circ = -1$ | 21. $\cos 5\pi/3 = 1/2$ |
| 6. $\tan 0^\circ = 0$ | 14. $\sin \pi/3 = \sqrt{3}/2$ | 22. $\sin 210^\circ = -1/2$ |
| 7. $\sin 5\pi/6 = 1/2$ | 15. $\cos \pi/4 = \sqrt{2}/2$ | 23. $\tan 5\pi/6 = -\sqrt{3}/3$ |
| 8. $\cos 7\pi/6 = -\sqrt{3}/2$ | 16. $\tan 4\pi/3 = \sqrt{3}$ | 24. $\sin \pi = 0$ |

YOUR SCORE

- 22 - 24** Fluent. Try the quiz again with the Level 2 blank circle.
- 18 - 21** Nearly there. Redo the ones you missed from the chart.
- Below 18** Keep going. Fill in the Level 1 guided circle, then retake this quiz.

Practise free online: [► Unit Circle Game](#) [► Practice Game](#) [► Circle Calculator](#)