Exact Trig Values *fluency*

ANSWERS

Write the exact value

1 $\sin 30°$ $\frac{1}{2}$

2 $\cos 60°$ $\frac{1}{2}$

3 $\tan 45°$ 1

4 $\sin 90°$ 1

5 $\cos 0°$ 1

6 $\tan 0°$ 0

Write the exact value

7 $\sin 60°$ $\frac{\sqrt{3}}{2}$

8 $\cos 30°$ $\frac{\sqrt{3}}{2}$

9 $\tan 60°$ $\sqrt{3}$

10 $\sin 45°$ $\frac{\sqrt{2}}{2}$

11 $\cos 45°$ $\frac{\sqrt{2}}{2}$

12 $\tan 30°$ $\frac{\sqrt{3}}{3}$

Find θ. θ is between 0° and 90°.

13 $\sin\theta = \frac{1}{2}$ $\theta = 30°$

14 $\cos\theta = \frac{1}{2}$ $\theta = 60°$

15 $\tan\theta = 1$ $\theta = 45°$

16 $\cos\theta = \frac{\sqrt{3}}{2}$ $\theta = 30°$

17 $\sin\theta = 1$ $\theta = 90°$

18 $\tan\theta = 0$ $\theta = 0°$

Work out the exact value

19 $\sin 30° + \cos 60°$ 1

20 $6 \sin 30°$ 3

21 $\tan 45° \times \cos 60°$ $\frac{1}{2}$

22 $(\sin 60°)^2$ $\frac{3}{4}$

23 $4 \cos 60° - 3 \tan 45°$ -1

24 $\sin 30° \times \tan 60°$ $\frac{\sqrt{3}}{2}$

Work out the exact value

25 $10 \sin 30°$ 5

26 $6 \cos 30°$ $3\sqrt{3}$

27 $8 \tan 45°$ 8

28 $12 \sin 60°$ $6\sqrt{3}$

29 $4 \tan 60°$ $4\sqrt{3}$

30 $9 \cos 60°$ $\frac{9}{2}$