



New Maths GCSE: G21 - Exact Values of Trigonometric Ratios

Name:.....

Date:.....

According to the diagram, what does $\sin(30)$ equal?

A $\frac{1}{2}$ **B** $\frac{2}{1}$ **C** $\frac{\sqrt{3}}{2}$ **D** $\frac{2}{2}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\cos(30)$ equal?

A $\frac{1}{\sqrt{3}}$ **B** $\frac{1}{2}$ **C** $\frac{\sqrt{3}}{2}$ **D** $\frac{2}{\sqrt{3}}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\tan(30)$ equal?

A $\frac{1}{\sqrt{3}}$ **B** $\frac{1}{2}$ **C** $\frac{\sqrt{3}}{1}$ **D** $\frac{\sqrt{3}}{2}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\sin(60)$ equal?

A $\frac{1}{2}$ B $\frac{2}{\sqrt{3}}$ C $\frac{\sqrt{3}}{2}$ D $\frac{2}{2}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\cos(60)$ equal?

A $\frac{1}{\sqrt{3}}$ B $\frac{1}{2}$ C $\frac{\sqrt{3}}{2}$ D $\frac{2}{1}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\tan(60)$ equal?

A $\frac{1}{\sqrt{3}}$ B $\frac{1}{2}$ C $\frac{\sqrt{3}}{1}$ D $\frac{\sqrt{3}}{2}$

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\sin(45)$ equal?

A $\frac{1}{\sqrt{2}}$ B $\frac{1}{2}$ C $\frac{\sqrt{2}}{1}$ D 1

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\cos(45)$ equal?

A $\frac{1}{\sqrt{2}}$ B $\frac{1}{2}$ C $\frac{\sqrt{2}}{1}$ D 1

Correct Answer: A B C D

Explanation:

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According to the diagram, what does $\tan(45)$ equal?

A $\frac{1}{\sqrt{2}}$ B $\frac{1}{2}$ C $\frac{\sqrt{2}}{1}$ D 1

Correct Answer: A B C D

Explanation:

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Which of the following statements is true for this triangle?

A $\tan 60^\circ = 0.5$

B $\cos 60^\circ = 0.5$

C $\sin 60^\circ = 0.5$

D $\cos 60^\circ = 2$

Correct Answer: A B C D

Explanation:

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Sin90=

A) B)

C) D)

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Correct Answer: A B C D

Explanation:

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Cos90=

A) <input style="width: 80%;" type="text" value="-1"/>	B) <input style="width: 80%;" type="text" value="1"/>
C) <input style="width: 80%;" type="text" value="∞"/>	D) <input style="width: 80%;" type="text" value="0"/>

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Correct Answer: A B C D

Explanation:

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Sin0=

A) <input style="width: 80%;" type="text" value="∞"/>	B) <input style="width: 80%;" type="text" value="0"/>
C) <input style="width: 80%;" type="text" value="-1"/>	D) <input style="width: 80%;" type="text" value="1"/>

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Correct Answer: A B C D

Explanation:

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Cos0=

A) <input style="width: 80%;" type="text" value="-1"/>	B) <input style="width: 80%;" type="text" value="∞"/>
C) <input style="width: 80%;" type="text" value="1"/>	D) <input style="width: 80%;" type="text" value="0"/>

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Correct Answer: A B C D

Explanation:

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Tan0=

A) <input style="width: 80%;" type="text" value="-1"/>	B) <input style="width: 80%;" type="text" value="0"/>
C) <input style="width: 80%;" type="text" value="∞"/>	D) <input style="width: 80%;" type="text" value="1"/>

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Correct Answer: A B C D

Explanation:

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