SASKATCHEWAN FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 · UNIT B · 25 QUESTIONS

Trigonometry and Primary Trigonometric Ratios — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A right triangle has an adjacent side of 10 and an acute angle of 60 degrees. The side opposite the angle is approximately**

A 20.3

B 17.3

C 14.3

D 10

Understand It with Pulse | Flag a mistake

2 **A right triangle has hypotenuse 36 and an acute angle of 30 degrees. The side adjacent to the angle is approximately**

- A 34.2
- B 28.2
- C 36
- D 31.2

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3 **A right triangle has hypotenuse 10 and an acute angle of 45 degrees. The side opposite the angle is approximately**

- A 7.1
- B 10.1
- C 4.1
- D 10

Understand It with Pulse | Flag a mistake

4 **A right triangle has hypotenuse 51 and one leg 24. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The exact value of cos 30 degrees is**

A $\sqrt{3}/2$

B $\sqrt{3}/3$

C $\frac{1}{2}$

D 1

Understand It with Pulse | Flag a mistake

6 **The exact value of sin 60 degrees is**

A $\frac{1}{2}$

B $\sqrt{3}/2$

C $\sqrt{3}$

D 1

Understand It with Pulse | Flag a mistake

7 **The exact value of tan 30 degrees is**

A $\frac{1}{2}$

B $\sqrt{3}/2$

C $\sqrt{3}/3$

D 1

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8 **A right triangle has an adjacent side of 15 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- A 26
- B 29
- C 23
- D 15

Understand It with Pulse | Flag a mistake

9 **A right triangle has hypotenuse 18 and an acute angle of 60 degrees. The side adjacent to the angle is approximately**

- A 12
- B 6
- C 18
- D 9

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10 **A right triangle has hypotenuse 10 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- A 11.7
- B 8.7
- C 5.7
- D 10

Understand It with Pulse | Flag a mistake

11 **A right triangle has hypotenuse 26 and one leg 10. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 The exact value of cos 60 degrees is

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

Understand It with Pulse | Flag a mistake

13 The exact value of sin 30 degrees is

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

Understand It with Pulse | Flag a mistake

14 **A right triangle has an adjacent side of 24 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- A 44.6
- B 41.6
- C 38.6
- D 24

Understand It with Pulse | Flag a mistake

15 **A right triangle has hypotenuse 18 and an acute angle of 30 degrees. The side adjacent to the angle is approximately**

- A 18.6
- B 12.6
- C 18
- D 15.6

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16 **A right triangle has hypotenuse 26 and an acute angle of 30 degrees. The side opposite the angle is approximately**

A 16

B 10

C 26

D 13

Understand It with Pulse | Flag a mistake

17 **A right triangle has hypotenuse 34 and one leg 16. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A right triangle has an adjacent side of 12 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- A 20.8
- B 23.8
- C 17.8
- D 12

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19 **A right triangle has hypotenuse 12 and an acute angle of 60 degrees. The side adjacent to the angle is approximately**

- A 6
- B 9
- C 3
- D 12

Understand It with Pulse | Flag a mistake

20 **A right triangle has hypotenuse 20 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- **A** 20.3
- **B** 14.3
- **C** 17.3
- **D** 20

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21 **A right triangle has hypotenuse 17 and one leg 8. The other leg is**

ANSWER _____

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22 **A right triangle has an adjacent side of 30 and an acute angle of 60 degrees. The side opposite the angle is approximately**

- A 55
- B 52
- C 49
- D 30

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23 **A right triangle has hypotenuse 24 and an acute angle of 60 degrees. The side adjacent to the angle is approximately**

- A 15
- B 12
- C 9
- D 24

Understand It with Pulse | Flag a mistake

24 **A right triangle has hypotenuse 14 and an acute angle of 30 degrees. The side opposite the angle is approximately**

- **A** 10
- **B** 4
- **C** 7
- **D** 14

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25 **A right triangle has hypotenuse 13 and one leg 5. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. D
3. A
4. 45
5. A
6. B
7. C
8. A
9. D
10. B
11. 24
12. A
13. C
14. B
15. D
16. D
17. 30
18. A
19. A
20. C
21. 15
22. B
23. B
24. C
25. 12

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