NOVA SCOTIA MATHEMATICS 10 · UNIT B · 25 QUESTIONS

Right Triangle Trigonometry — 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 opposite side 3 and hypotenuse 5. The sine ratio is**

- **A** $\frac{3}{5}$
- **B** $\frac{4}{5}$
- **C** $\frac{3}{4}$
- **D** $\frac{5}{3}$

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2 **A right triangle has adjacent side 4 and hypotenuse 5. The cosine ratio is**

- **A** $\frac{3}{5}$
- **B** $\frac{4}{5}$
- **C** $\frac{4}{3}$
- **D** $\frac{5}{4}$

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3 **A right triangle has opposite side 3 and adjacent side 4. The tangent ratio is**

- **A** $\frac{4}{3}$
- **B** $\frac{3}{5}$
- **C** $\frac{3}{4}$
- **D** $\frac{4}{5}$

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4 A right triangle has opposite side 3 and hypotenuse 5. The sine as a decimal is

ANSWER _____

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5 A right triangle has adjacent side 4 and hypotenuse 5. The cosine as a decimal is

ANSWER _____

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6 A right triangle has opposite side 6 and hypotenuse 10. The sine ratio is

A $\frac{8}{10}$

B $\frac{6}{8}$

C $\frac{10}{6}$

D $\frac{6}{10}$

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7 A right triangle has adjacent side 8 and hypotenuse 10. The cosine ratio is

- **A** $\frac{8}{10}$
- **B** $\frac{6}{10}$
- **C** $\frac{8}{6}$
- **D** $\frac{10}{8}$

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8 A right triangle has opposite side 6 and adjacent side 8. The tangent ratio is

- **A** $\frac{8}{6}$
- **B** $\frac{6}{8}$
- **C** $\frac{6}{10}$
- **D** $\frac{8}{10}$

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9 A right triangle has opposite side 6 and hypotenuse 10. The sine as a decimal is

ANSWER _____

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10 A right triangle has adjacent side 8 and hypotenuse 10. The cosine as a decimal is

ANSWER _____

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11 A right triangle has opposite side 5 and hypotenuse 13. The sine ratio is

A $\frac{12}{13}$

B $\frac{5}{12}$

C $\frac{5}{13}$

D $\frac{13}{5}$

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12 A right triangle has adjacent side 12 and hypotenuse 13. The cosine ratio is

- **A** $\frac{5}{13}$
- **B** $\frac{12}{5}$
- **C** $\frac{13}{12}$
- **D** $\frac{12}{13}$

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13 A right triangle has opposite side 5 and adjacent side 12. The tangent ratio is

- **A** $\frac{5}{12}$
- **B** $\frac{12}{5}$
- **C** $\frac{5}{13}$
- **D** $\frac{12}{13}$

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14 A right triangle has opposite side 5 and hypotenuse 13. The sine as a decimal is

ANSWER _____

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15 A right triangle has adjacent side 12 and hypotenuse 13. The cosine as a decimal is

ANSWER _____

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16 A right triangle has opposite side 9 and hypotenuse 15. The sine ratio is

A $\frac{12}{15}$

B $\frac{9}{15}$

C $\frac{9}{12}$

D $\frac{15}{9}$

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17 A right triangle has adjacent side 12 and hypotenuse 15. The cosine ratio is

- **A** $\frac{9}{15}$
- **B** $\frac{12}{9}$
- **C** $\frac{12}{15}$
- **D** $\frac{15}{12}$

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18 A right triangle has opposite side 9 and adjacent side 12. The tangent ratio is

- **A** $\frac{12}{9}$
- **B** $\frac{9}{15}$
- **C** $\frac{12}{15}$
- **D** $\frac{9}{12}$

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19 A right triangle has opposite side 9 and hypotenuse 15. The sine as a decimal is

ANSWER _____

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20 A right triangle has adjacent side 12 and hypotenuse 15. The cosine as a decimal is

ANSWER _____

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21 A right triangle has opposite side 8 and hypotenuse 17. The sine ratio is

A $\frac{8}{17}$

B $\frac{15}{17}$

C $\frac{8}{15}$

D $\frac{17}{8}$

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22 A right triangle has adjacent side 15 and hypotenuse 17. The cosine ratio is

- **A** $\frac{8}{17}$
- **B** $\frac{15}{17}$
- **C** $\frac{15}{8}$
- **D** $\frac{17}{15}$

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23 A right triangle has opposite side 8 and adjacent side 15. The tangent ratio is

- **A** $\frac{8}{15}$
- **B** $\frac{15}{8}$
- **C** $\frac{8}{17}$
- **D** $\frac{15}{17}$

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24 **A right triangle has opposite side 8 and hypotenuse 17. The sine as a decimal is**

ANSWER _____

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25 **A right triangle has adjacent side 15 and hypotenuse 17. The cosine as a decimal is**

ANSWER _____

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ANSWER KEY

1. A
2. B
3. C
4. 0.6
5. 0.8
6. D
7. A
8. B
9. 0.6
10. 0.8
11. C
12. D
13. A
14. 0.3846
15. 0.9231
16. B
17. C
18. D
19. 0.6
20. 0.8
21. A
22. B
23. A
24. 0.4706
25. 0.8824

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