Northwest Territories Workplace Mathematics 10 (MWPM-10) Practice Test

Unit C: Trigonometry and Polygons

10 Questions

Original practice test based on the Northwest Territories curriculum. Work through each question, then check your answers at the end.

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.

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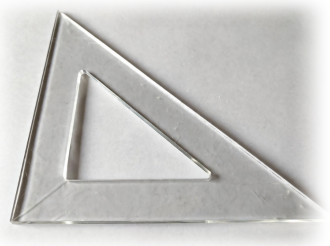

Question 1

In a right triangle, the side opposite an angle is 9 cm and the side adjacent to it is 12 cm. The tangent of the angle is

A) 1.33

B) 0.8

C) 0.6

D) 0.75

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Question 2

Two angles of a triangle are 35 degrees and 55 degrees. The third angle, in degrees, is

A) 90

B) 80

C) 70

D) 100

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Question 3

The sum of the interior angles of a heptagon, in degrees, is

A) 720

B) 1080

C) 900

D) 540

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Question 4

Each interior angle of a regular pentagon, in degrees, is

A) 72

B) 135

C) 120

D) 108

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Question 5

Each exterior angle of a regular octagon, in degrees, is

A) 135

B) 45

C) 60

D) 90

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Question 6

Each exterior angle of a polygon is 30 degrees. The number of sides of the polygon is

A) 10

B) 12

C) 15

D) 6

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Question 7

One angle is 62 degrees. Its complementary angle, in degrees, is ____.

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Question 8

Two vertical angles are formed by intersecting lines. One is 75 degrees. The other, in degrees, is

A) 105

B) 75

C) 15

D) 90

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Question 9

In a right triangle, an angle is 30 degrees and the hypotenuse is 14 cm. The side opposite the angle, in centimetres, is

A) 7

B) 12.12

C) 28

D) 21

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Question 10

A ladder leans against a wall with its foot 6 m from the wall and its top 8 m above the ground. The length of the ladder, in metres, is

A) 14

B) 10

C) 12

D) 7

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ANSWER KEY

1. D
2. A
3. C
4. D
5. B
6. B
7. 28
8. B
9. A
10. B

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