# Trigonometry and Polygons — Practice Test

**Yukon Workplace Mathematics 10 (MWPM-10) • 10 questions**

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** **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

Understand It with Pulse | Flag a mistake

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

A 72

B 135

C 120

D 108

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

A 45

B 135

C 60

D 90

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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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7 **One angle is 62 degrees. Its complementary angle, in degrees, is _____.**

ANSWER _____

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

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