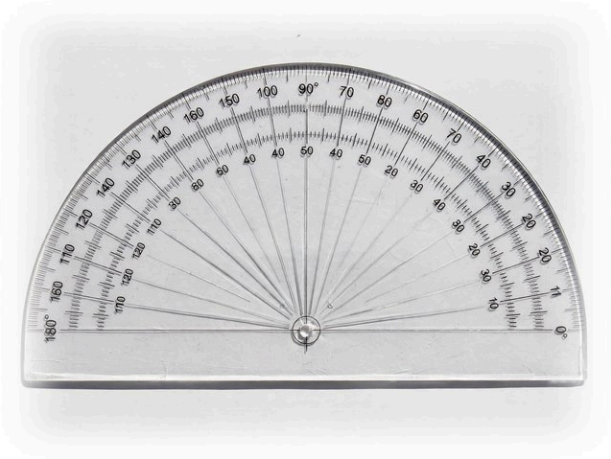
Angle Geometry, Trigonometry and Scale Diagrams — Practice Test

Newfoundland and Labrador Mathematics 2201 • 25 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 **An angle measures 35°. Its complement, in degrees, is**



ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An angle measures 135°. Its supplement, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two angles of a triangle measure 35° and 85°. The third angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a right triangle, the hypotenuse is 24 and an acute angle is 30°. The opposite side, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **On a map with scale 1 to 50000, a distance of 3 cm represents, in kilometres, a real distance of**



ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The right triangle shown has legs 6 and 8. Its hypotenuse is**

- A 14
- B 10
- C 12
- D 48

Understand It with Pulse | Flag a mistake

7 **Check the definition first. Parallel lines cut by a transversal make alternate interior angles**

- A supplementary
- B complementary
- C equal
- D unrelated

Understand It with Pulse | Flag a mistake

8 **In a triangle, angle A is 40°, side a is 12, and angle B is 50°. Side b, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An inscribed angle subtends the same arc as a central angle of 80°. The inscribed angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Use what the term means. Corresponding angles formed by parallel lines and a transversal are**



A supplementary

B equal

C complementary

D always right angles

Understand It with Pulse | Flag a mistake

11 **A model is 20 cm long and represents an object 500 cm long. The scale factor, as 1 to n, has n equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Two sides measure 10 and 6 with included angle 90°. The third side, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Two triangles are similar with scale factor 2. A side of length 6 in the smaller triangle has a corresponding side in the larger triangle of length**

ANSWER _____

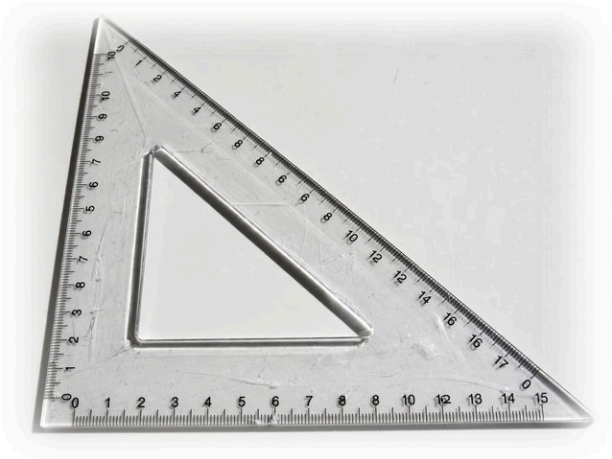
Understand It with Pulse | Flag a mistake

14 **Two remote interior angles of a triangle measure 30° and 70°. The exterior angle at the third vertex, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 An angle measures 68°. Its complement, in degrees, is



ANSWER _____

Understand It with Pulse | Flag a mistake

16 An angle measures 152°. Its supplement, in degrees, is

ANSWER _____

Understand It with Pulse | Flag a mistake

17 Two angles of a triangle measure 50° and 60°. The third angle, in degrees, is

ANSWER _____

Understand It with Pulse | Flag a mistake

18 In a right triangle, the hypotenuse is 14 and an acute angle is 60°. The opposite side, to one decimal place, is

ANSWER _____

Understand It with Pulse | Flag a mistake

19 On a map with scale 1 to 20000, a distance of 5 cm represents, in kilometres, a real distance of

ANSWER _____

Understand It with Pulse | Flag a mistake

20 Review the concept. The right triangle shown has legs 6 and 8. Its hypotenuse is

A 14

B 12

C 48

D 10

Understand It with Pulse | Flag a mistake

21 **Think about the principle. Parallel lines cut by a transversal make alternate interior angles**

- A equal
- B supplementary
- C complementary
- D unrelated

Understand It with Pulse | Flag a mistake

22 **In a triangle, angle A is 30°, side a is 10, and angle B is 45°. Side b, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An inscribed angle subtends the same arc as a central angle of 60°. The inscribed angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Consider the principle in general. Corresponding angles formed by parallel lines and a transversal are**

A supplementary

B complementary

C always right angles

D equal

Understand It with Pulse | Flag a mistake

25 **A model is 15 cm long and represents an object 300 cm long. The scale factor, as 1 to n, has n equal to**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	55	**10.**	B	**19.**	1
2.	45	**11.**	25	**20.**	D
3.	60	**12.**	11.7	**21.**	A
4.	12	**13.**	12	**22.**	14.1
5.	1.5	**14.**	100	**23.**	30
6.	B	**15.**	22	**24.**	D
7.	C	**16.**	28	**25.**	20
8.	14.3	**17.**	70		
9.	40	**18.**	12.1		

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