Properties of Geometric Figures, Transformations and Trigonometry — Practice Test

Prince Edward Island Apprenticeship and Workplace Mathematics 12 • 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 **A circle with radius 3 has diameter**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 6 and 8. The hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A triangle with base 10 and height 6 has area**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A rectangle 9 by 4 has area**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A scale drawing uses a scale of 1 to 50. A drawing length of 4 centimetres represents this many centimetres in reality**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A square with side 7 has perimeter**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A dilation changes a figure by a**

A rotation angle

B scale factor

C translation vector

D mirror line

Understand It with Pulse | Flag a mistake

8 **A reflection produces a**

A larger image

B rotated image only

C translated image only

D mirror image

Understand It with Pulse | Flag a mistake

9 **A right triangle has hypotenuse 13 and leg 12. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A rotation turns a figure about a**

A scale factor

B grid line

C fixed point

D mirror line

Understand It with Pulse | Flag a mistake

11 **A scale factor greater than 1 gives an**

A enlargement

B reduction

C congruent figure

D reflection

Understand It with Pulse | Flag a mistake

12 **A tessellation covers a plane with**

A only squares

B gaps allowed

C no gaps or overlaps

D only triangles

Understand It with Pulse | Flag a mistake

13 **A translation moves a figure**

A without rotating or flipping it

B by rotating it

C by flipping it

D by enlarging it

Understand It with Pulse | Flag a mistake

14 **An angle of rotation is measured in**

A metres

B square units

C percent

D degrees

Understand It with Pulse | Flag a mistake

15 **Congruent figures have the same**

A shape and size

B shape only

C size only

D orientation only

Understand It with Pulse | Flag a mistake

16 **In a right triangle, the tangent of an angle equals**

A opposite over hypotenuse

B opposite over adjacent

C hypotenuse over opposite

D adjacent over hypotenuse

Understand It with Pulse | Flag a mistake

17 **A circle with radius 5 has diameter**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A right triangle has legs 5 and 12. The hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A triangle with base 8 and height 5 has area**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A rectangle 8 by 5 has area**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A scale drawing uses a scale of 1 to 20. A drawing length of 5 centimetres represents this many centimetres in reality**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A square with side 9 has perimeter**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A circle with radius 2 has diameter**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A right triangle has legs 9 and 12. The hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A triangle with base 6 and height 9 has area**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	6	**10.**	C	**19.**	20
2.	10	**11.**	A	**20.**	40
3.	30	**12.**	C	**21.**	100
4.	36	**13.**	A	**22.**	36
5.	200	**14.**	D	**23.**	4
6.	28	**15.**	A	**24.**	15
7.	B	**16.**	B	**25.**	27
8.	D	**17.**	10		
9.	5	**18.**	13		

© 2026 Brett Robbins. All Rights Reserved.