MANITOBA ESSENTIAL MATHEMATICS 40S · UNIT F · 25 QUESTIONS

Geometry and 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 ladder reaches a wall forming a right triangle with base 12 and height 16. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has hypotenuse 39 and one leg 15. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 12 and 16. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a right triangle with opposite 4 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A polygon with eight sides is an**

A hexagon

B pentagon

C decagon

D octagon

Understand It with Pulse | Flag a mistake

6 **A polygon with five sides is a**

A hexagon

B pentagon

C octagon

D heptagon

Understand It with Pulse | Flag a mistake

7 **A polygon with six sides is a**

A pentagon

B octagon

C hexagon

D decagon

Understand It with Pulse | Flag a mistake

8 **A straight line graph has a slope that is**

A increasing

B constant

C zero always

D undefined always

Understand It with Pulse | Flag a mistake

9 **Half of the diameter of a circle is the**

A circumference

B radius

C chord

D arc

Understand It with Pulse | Flag a mistake

10 **In a right triangle, the side opposite the right angle is the**

A adjacent

B opposite side

C hypotenuse

D base

Understand It with Pulse | Flag a mistake

11 **In a right triangle with adjacent 4 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **In the expression 3x plus 5, the letter x is the**

A variable

B coefficient

C constant

D term

Understand It with Pulse | Flag a mistake

13 **In the expression 3x plus 5, the number 3 is the**

A constant

B variable

C solution

D coefficient

Understand It with Pulse | Flag a mistake

14 **The distance around a circle is the**

A circumference

B diameter

C radius

D area

Understand It with Pulse | Flag a mistake

15 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

16 **The ratio of circumference to diameter is**

A two

B three

C pi

D the radius

Understand It with Pulse | Flag a mistake

17 **The right triangle has legs 16 and 30 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A ladder reaches a wall forming a right triangle with base 16 and height 30. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A right triangle has hypotenuse 50 and one leg 14. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A right triangle has legs 24 and 45. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **In a right triangle with opposite 3 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A ladder reaches a wall forming a right triangle with base 28 and height 96. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A right triangle has hypotenuse 52 and one leg 20. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **In a right triangle with opposite 1 and hypotenuse 2, the ratio is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**10.**	C	**19.**	48
2.	36	**11.**	0.8	**20.**	51
3.	20	**12.**	A	**21.**	0.6
4.	0.8	**13.**	D	**22.**	100
5.	D	**14.**	A	**23.**	48
6.	B	**15.**	B	**24.**	15
7.	C	**16.**	C	**25.**	0.5
8.	B	**17.**	34		
9.	B	**18.**	34		

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