BRITISH COLUMBIA WORKPLACE MATHEMATICS 10 (MWPM-10) · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 rope is 3 metres long. Its length in centimetres is**

- A 30
- B 30000
- C 3000
- D 300

Understand It with Pulse | Flag a mistake

2 **The area of a triangle with base 10 cm and height 6 cm, in cm², is**

- A 60
- B 30
- C 16
- D 32

Understand It with Pulse | Flag a mistake

3 **A right triangle has hypotenuse 13 cm and one leg 5 cm. The other leg, in centimetres, is**

- A 8
- B 18
- C 12
- D 14

Understand It with Pulse | Flag a mistake

4 **A pack of 12 pens costs 6.00 dollars. The cost of one pen, in dollars, is**

- A 0.60
- B 0.50
- C 0.40
- D 2.00

Understand It with Pulse | Flag a mistake

5 **A bottle holds 750 millilitres. Its capacity in litres is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The area of a trapezoid with bases 8 cm and 14 cm and height 5 cm, in cm², is**

A 44

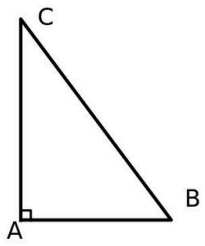
B 110

C 70

D 55

Understand It with Pulse | Flag a mistake

7 **The diagram shows a right triangle with legs 6 cm and 8 cm. The hypotenuse, in centimetres, is**



- **A** 10
- **B** 14
- **C** 12
- **D** 20

Understand It with Pulse | Flag a mistake

8 **The exchange rate is 1 euro = 1.50 Canadian dollars. The value of 50 euros, in Canadian dollars, is**

- **A** 33.33
- **B** 50
- **C** 75
- **D** 100

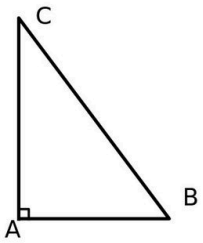
Understand It with Pulse | Flag a mistake

9 **A garden bed is 3 yards wide. Its width in feet is**

- **A** 6
- **B** 12
- **C** 9
- **D** 3

Understand It with Pulse | Flag a mistake

10 **The diagram shows a right triangle with base 6 cm and height 8 cm. The area of the triangle, in cm², is**



- **A** 20
- **B** 48
- **C** 14
- **D** 24

Understand It with Pulse | Flag a mistake

11 In a right triangle, the side opposite an angle is 3 cm and the side adjacent to it is 4 cm. The tangent of the angle is

- A 0.6
- B 0.8
- C 0.75
- D 1.33

Understand It with Pulse | Flag a mistake

12 The regular wage is 20 dollars per hour. Overtime is paid at 1.5 times the regular wage. The overtime wage, in dollars per hour, is

- A 25
- B 30
- C 35
- D 40

Understand It with Pulse | Flag a mistake

13 A bag of flour has a mass of 2500 grams. Its mass in kilograms is

- A 25
- B 0.25
- C 2.5
- D 250

Understand It with Pulse | Flag a mistake

14 The volume of a rectangular prism 6 cm by 4 cm by 3 cm, in cm^3, is

- A 13
- B 72
- C 36
- D 144

Understand It with Pulse | Flag a mistake

15 **The acute angle with tangent equal to 1 , in degrees, is**

A 30

B 60

C 45

D 90

Understand It with Pulse | Flag a mistake

16 **The volume formula is V = lwh. If V = 120, l = 5, and w = 4 , the value of h is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A parcel has a mass of 5 pounds. Its mass in ounces is**

A 60

B 50

C 100

D 80

Understand It with Pulse | Flag a mistake

18 **The surface area of a cylinder with radius 3 cm and height 10 cm, using 3.14 for π , in cm², is**

A 122.46

B 188.4

C 282.6

D 244.92

Understand It with Pulse | Flag a mistake

19 **Two angles of a triangle are 50 degrees and 70 degrees. The third angle, in degrees, is**

- A 50
- B 60
- C 70
- D 120

Understand It with Pulse | Flag a mistake

20 **A recipe uses 2 cups of flour for 12 muffins. For 30 muffins, the flour needed, in cups, is**

- A 4
- B 5
- C 6
- D 3

Understand It with Pulse | Flag a mistake

21 The most appropriate unit for the distance between two cities is

- A Centimetres
- B Metres
- C Millimetres
- D Kilometres

Understand It with Pulse | Flag a mistake

22 The area of a rectangle 8 cm long and 5 cm wide, in cm², is

- A 13
- B 26
- C 40
- D 45

Understand It with Pulse | Flag a mistake

23 **Each interior angle of a regular hexagon, in degrees, is**

- A 108
- B 120
- C 135
- D 90

Understand It with Pulse | Flag a mistake

24 **A part time worker earns 17.50 dollars per hour and works 18 hours per week. The weekly gross pay, in dollars, is**

- A 315
- B 300
- C 350
- D 280

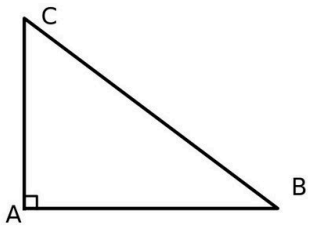
Understand It with Pulse | Flag a mistake

25 **A ribbon is 1.8 metres long. Its length in centimetres is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **The diagram shows the triangular base of a prism. The base has base 8 cm and height 6 cm. The prism is 10 cm long. The volume of the prism, in cm³, is**



A 240

B 120

C 480

D 48

Understand It with Pulse | Flag a mistake

27 **The interior angles of a polygon add to 900 degrees. The number of sides of the polygon is**

A 5

B 6

C 7

D 8

Understand It with Pulse | Flag a mistake

28 **The perimeter formula is P = 2(l + w). If P = 30 and w = 7 , the value of l is**

A 16

B 8

C 23

D 15

Understand It with Pulse | Flag a mistake

29 **A road is 2 miles long. Its length in yards is**

A 1760

B 3520

C 5280

D 880

Understand It with Pulse | Flag a mistake

30 **The volume of a cylinder with radius 2 cm and height 7 cm, using 3.14 for π , in cm^3, is**

A 87.92

B 43.96

C 175.84

D 21.98

Understand It with Pulse | Flag a mistake

31 **A right triangle has legs 5 cm and 12 cm. The hypotenuse, in centimetres, is**

A 13

B 17

C 10

D 15

Understand It with Pulse | Flag a mistake

32 **Six snack bars cost 4.50 dollars. The cost of one bar, in dollars, is**

A 0.90

B 0.60

C 0.75

D 1.50

Understand It with Pulse | Flag a mistake

33 **A race is 1.5 kilometres long. Its length in metres is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The area of a triangle with base 14 cm and height 5 cm, in cm², is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **In a right triangle, the side opposite an angle is 8 cm and the hypotenuse is 10 cm. The sine of the angle is**

A 0.6

B 0.75

C 1.25

D 0.8

Understand It with Pulse | Flag a mistake

36 **The exchange rate is 1 US dollar = 1.35 Canadian dollars. The value of 270 Canadian dollars, in US dollars, is**

- A 250
- B 150
- C 364.50
- D 200

Understand It with Pulse | Flag a mistake

37 **A desk is 6 feet long. Its length in inches is**

- A 60
- B 72
- C 36
- D 18

Understand It with Pulse | Flag a mistake

38 The area of a circle with radius 5 cm, using 3.14 for π , in cm², is

- A 31.4
- B 78.5
- C 157
- D 15.7

Understand It with Pulse | Flag a mistake

39 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

Understand It with Pulse | Flag a mistake

40 **The perimeter formula for a square is P = 4s. If P = 64 , the value of s is**

- A 256
- B 60
- C 16
- D 8

Understand It with Pulse | Flag a mistake

41 **A jug holds 4 litres. Its capacity in millilitres is**

- A 400
- B 40
- C 40000
- D 4000

Understand It with Pulse | Flag a mistake

42 **The volume of a rectangular prism 7 cm by 2 cm by 4 cm, in cm^3, is _____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **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

Understand It with Pulse | Flag a mistake

44 **A worker is paid 3200 dollars per month. The annual pay, in dollars, is _____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **The best tool for measuring the capacity of a liquid in a lab is**

- **A** A ruler
- **B** A tape measure
- **C** A balance
- **D** A graduated cylinder

Understand It with Pulse | Flag a mistake

46 **The surface area of a sphere with radius 3 cm, using 3.14 for π , in cm^2, is**

- **A** 28.26
- **B** 113.04
- **C** 56.52
- **D** 226.08

Understand It with Pulse | Flag a mistake

47 **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

Understand It with Pulse | Flag a mistake

48 **A worker earns 19 dollars per hour for 40 hours and 28.50 dollars per hour for 2 overtime hours. The total gross pay, in dollars, is**

- A 760
- B 817
- C 855
- D 798

Understand It with Pulse | Flag a mistake

49 **A parcel has a mass of 4.2 kilograms. Its mass in grams is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The surface area of a rectangular prism 4 cm by 2 cm by 3 cm, in cm², is**

A 52

B 24

C 26

D 104

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**18.**	D	**35.**	D
2.	B	**19.**	B	**36.**	D
3.	C	**20.**	B	**37.**	B
4.	B	**21.**	D	**38.**	B
5.	0.75	**22.**	C	**39.**	A
6.	D	**23.**	B	**40.**	C
7.	A	**24.**	A	**41.**	D
8.	C	**25.**	180	**42.**	56
9.	C	**26.**	A	**43.**	B
10.	D	**27.**	C	**44.**	38400
11.	C	**28.**	B	**45.**	D
12.	B	**29.**	B	**46.**	B
13.	C	**30.**	A	**47.**	A
14.	B	**31.**	A	**48.**	B
15.	C	**32.**	C	**49.**	4200
16.	6	**33.**	1500	**50.**	A
17.	D	**34.**	35		

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