BRITISH COLUMBIA WORKPLACE MATHEMATICS 10 (MWPM-10) · UNIT B · 25 QUESTIONS

Area, Surface Area and Volume — 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 **The area of a chocolate bar 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

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 **The area of a circle with radius 3 cm, using 3.14 for π , in cm², is**

- A 56.52
- B 18.84
- C 9.42
- D 28.26

Understand It with Pulse | Flag a mistake

4 The area of a parallelogram with base 12 cm and height 7 cm, in cm², is

- A 19
- B 38
- C 84
- D 42

Understand It with Pulse | Flag a mistake

5 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

6 **The area of a square tile with side length 9 cm, in cm², is ____.**



ANSWER _____

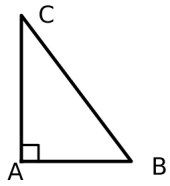
Understand It with Pulse | Flag a mistake

7 **A shape is made of a rectangle 10 cm by 6 cm joined to a rectangle 4 cm by 3 cm. The total area of the shape, in cm², is**

- **A** 84
- **B** 60
- **C** 72
- **D** 66

Understand It with Pulse | Flag a mistake

8 **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

9 **The surface area of a cube with side length 4 cm, in cm², is**

A 64

B 96

C 24

D 128

Understand It with Pulse | Flag a mistake

10 **The volume of a die with side length 5 cm, in cm^3, is ____.**



ANSWER _____

Understand It with Pulse | Flag a mistake

11 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

12 The surface area of a rectangular prism 5 cm by 3 cm by 2 cm, in cm^2, is

- A 31
- B 62
- C 30
- D 124

Understand It with Pulse | Flag a mistake

13 **The volume of a cylinder with radius 3 cm and height 10 cm, using 3.14 for π , in cm³, is**

A 942

B 188.4

C 282.6

D 94.2

Understand It with Pulse | Flag a mistake

14 **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

15 **The volume of an ice cream cone with radius 4 cm and height 9 cm, using 3.14 for π , in cm^3, is**



A 150.72

B 452.16

C 75.36

D 301.44

Understand It with Pulse | Flag a mistake

16 **The volume of a square pyramid with base 6 cm by 6 cm and height 10 cm, in cm³, is**

- A 360
- B 120
- C 60
- D 180

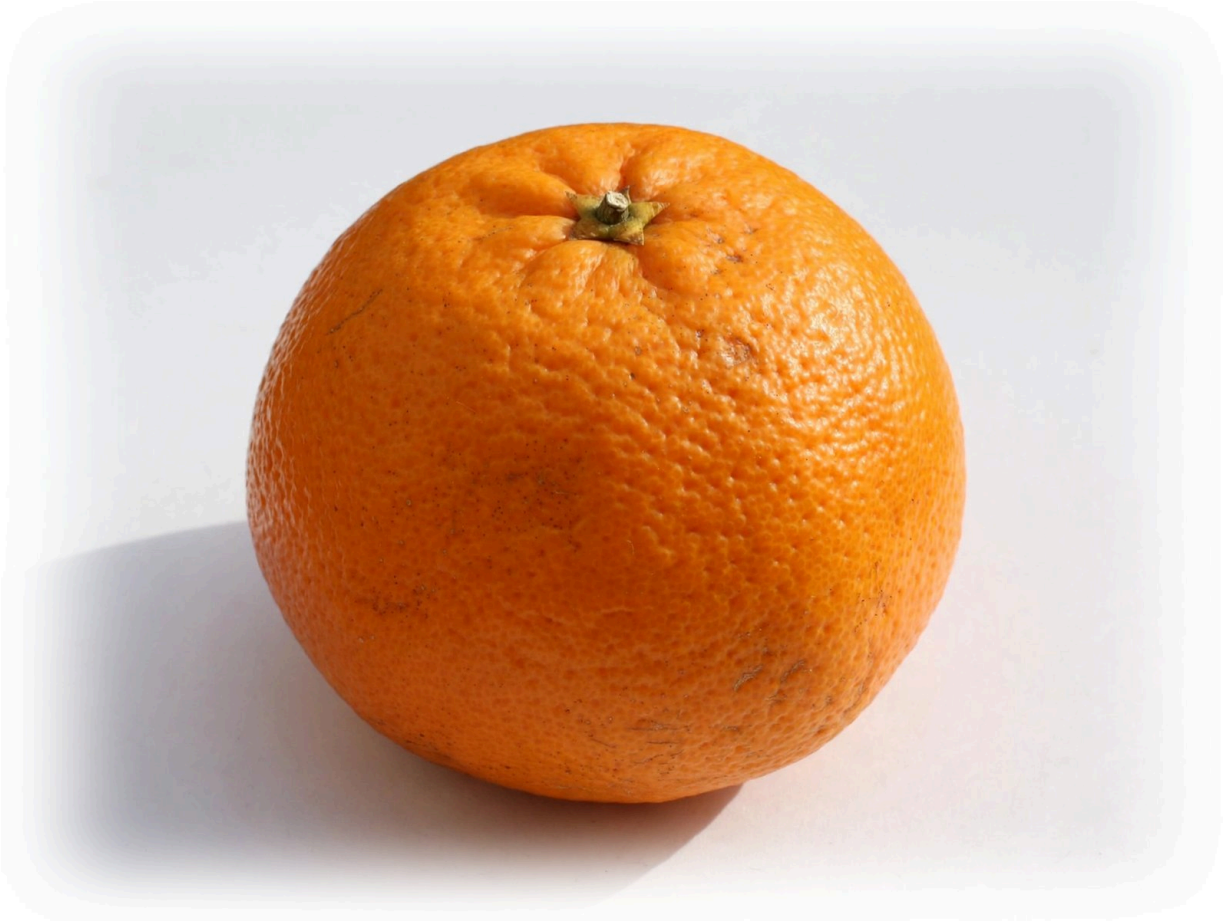
Understand It with Pulse | Flag a mistake

17 **The volume of a sphere with radius 3 cm, using 3.14 for π , in cm³, is**

- A 113.04
- B 37.68
- C 226.08
- D 84.78

Understand It with Pulse | Flag a mistake

18 **The surface area of an orange with radius 5 cm, using 3.14 for π , in cm², is**



A 78.5

B 314

C 157

D 628

Understand It with Pulse | Flag a mistake

19 **An object is made of a rectangular prism 4 cm by 3 cm by 2 cm joined to a cube of side 2 cm. The total volume of the object, in cm³, is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A composite shape is made of a rectangle 8 cm by 5 cm joined to a rectangle 6 cm by 4 cm. The total area of the shape, in cm², is**

A 64

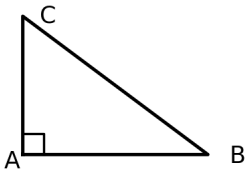
B 40

C 88

D 52

Understand It with Pulse | Flag a mistake

21 **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

22 One m^2 is equal to how many cm^2?

A 100

B 1000

C 10000

D 100000

Understand It with Pulse | Flag a mistake

23 An area of 2.5 m^2, in cm^2, is ____.

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The volume of a cylinder with radius 2 cm and height 7 cm, using 3.14 for π , in cm³, is**

A 87.92

B 43.96

C 175.84

D 21.98

Understand It with Pulse | Flag a mistake

25 **A floor is 6 m by 4 m. Each tile covers 0.25 m². The number of tiles needed to cover the floor is**



A 96

B 48

C 24

D 120

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. D
4. C
5. D
6. 81
7. C
8. D
9. B
10. 125
11. B
12. B
13. C
14. D
15. A
16. B
17. A
18. B
19. 32
20. A
21. A
22. C
23. 25000
24. A
25. A

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