NORTHWEST TERRITORIES WORKPLACE MATHEMATICS 11 (MWPM-11) · UNIT D · 10 QUESTIONS

# 3D Objects and Scale Diagrams — 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** How many vertices does a cube have?

- A 6
- B 8
- C 12
- D 16

Understand It with Pulse | Flag a mistake

2 **A net with one circle and one sector of a circle folds to make a**

A cone

B cylinder

C sphere

D pyramid

Understand It with Pulse | Flag a mistake

3 **On a 1:100000 map, a distance drawn 3 cm long is really**

A 300 m

B 3 km

C 30 km

D 300 km

Understand It with Pulse | Flag a mistake

**4** **A photograph is enlarged by a scale factor of 4. A 6 cm side becomes**

- A 10 cm
- B 18 cm
- C 24 cm
- D 36 cm

Understand It with Pulse | Flag a mistake

**5** **A real length of 10 m drawn at 1:200 is drawn as**

- A 2 cm
- B 5 cm
- C 20 cm
- D 50 cm

Understand It with Pulse | Flag a mistake

6 **The triangle has legs 9 cm and 12 cm. Its hypotenuse is**

A 15 cm

B 18 cm

C 21 cm

D 108 cm

Understand It with Pulse | Flag a mistake

7 **A scale model of a house is built at 1:50. A real wall 8 m long is modelled as**

A 8 cm

B 16 cm

C 40 cm

D 80 cm

Understand It with Pulse | Flag a mistake

8 **When a solid is enlarged by a scale factor of 3, its surface area is multiplied by**

- A 3
- B 6
- C 9
- D 27

Understand It with Pulse | Flag a mistake

9 **Which solid has exactly one flat circular face and one vertex?**

- A Cone
- B Cylinder
- C Sphere
- D Cube

Understand It with Pulse | Flag a mistake

**10** A tank holds 240 litres. A scale model tank built at a linear scale factor of $\frac{1}{2}$ holds what fraction of the volume?

A $\frac{1}{2}$

B $\frac{1}{4}$

C $\frac{1}{8}$

D $\frac{1}{16}$

Understand It with Pulse | Flag a mistake

## ANSWER KEY

1. B
2. A
3. B
4. C
5. B
6. A
7. B
8. C
9. A
10. C

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