

Measurement & Geometry Assessment

ACMMG242 (A)



Name: _____

Score: _____

Teacher: _____



Assessment



Navigator



Student



30 min

Q.1. A rectangular box 8 cm x 12 cm x 5 cm has volume:

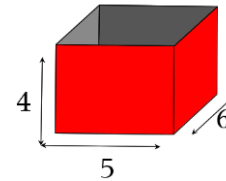
- a) 25 cm b) 392 cm² c) 480 cm² d) 960 cm² e) None of these

Q.2. A rectangular box 7 cm x 8 cm x 5 cm has total surface area:

- a) 30 cm b) 131 cm² c) 262 cm² d) 280 cm² e) 280 cm³

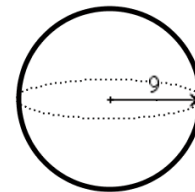
Q.3. A rectangular box (shown below) without a lid measuring 4 cm x 5 cm x 6 cm has a total external surface area:

- a) 15 cm b) 118 cm² c) 120 cm²
d) 148 cm² e) 240 cm²



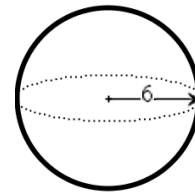
Q.4. A sphere of radius 9 cm has volume:

- a) 254.5 cm³ b) 1017.9 cm² c) 729 cm³
d) 2290.2 cm³ e) 3053.6 cm³



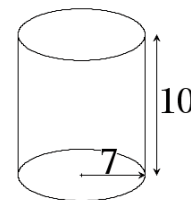
Q.5. A sphere of radius 6 cm has surface area:

- a) 37.7 cm² b) 36 cm² c) 113.1 cm²
d) 452.4 cm² e) 904.8 cm²



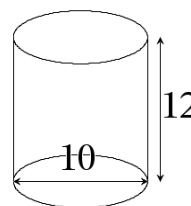
Q.6. A cylinder radius 7 cm and height 10 cm has volume:

- a) 70 cm³ b) 219.9 cm³ c) 429.8 cm³
d) 490 cm³ e) 1539.4 cm³



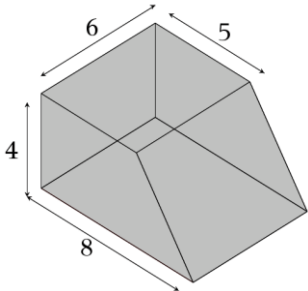
Q.7. A cylinder of diameter 10cm and height 12cm has surface area:

- a) 455.5 cm² b) 534.1 cm² c) 754.0 cm²
d) 1068.1 cm² e) 1382.3 cm²



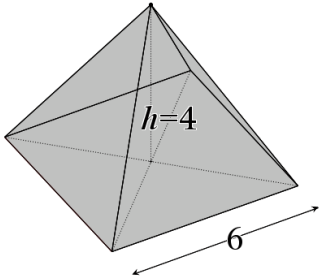
Q.8. Determine the volume of the shape below using the measurements provided.

Four horizontal lines for writing the answer to Q.8.



Q.9. Determine the total surface area of the square based pyramid shown below using the measurements provided.

Four horizontal lines for writing the answer to Q.9.



Q.10. The shape below consists of a square based pyramid on top of a box. Use the measurements provided to determine the total surface area.

Four horizontal lines for writing the answer to Q.10.

