## Measurement \& Geometry Assessment

ACMMG242 (E)

## Name:

Score:
$\qquad$


Assessment


Navigator


Student


30 min

Teacher:
Q.1. A rectangular box $8 \mathrm{~cm} \times 12 \mathrm{~cm} \times 5 \mathrm{~cm}$ has volume:
a) 25 cm
b) $392 \mathrm{~cm}^{2}$
c) $480 \mathrm{~cm}^{2}$
d) $960 \mathrm{~cm}^{2}$
e) None of these
Q.2. A rectangular box $7 \mathrm{~cm} \times 8 \mathrm{~cm} \times 5 \mathrm{~cm}$ has total surface area:
a) 30 cm
b) $131 \mathrm{~cm}^{2}$
c) $262 \mathrm{~cm}^{2}$
d) $280 \mathrm{~cm}^{2}$
e) $280 \mathrm{~cm}^{3}$
Q.3. A rectangular box (shown below) without a lid measuring $4 \mathrm{~cm} \times 5 \mathrm{~cm} \times 6 \mathrm{~cm}$ has a total external surface area:
a) 15 cm
b) $118 \mathrm{~cm}^{2}$
c) $120 \mathrm{~cm}^{2}$
d) $148 \mathrm{~cm}^{2}$
e) $240 \mathrm{~cm}^{2}$

Q.4. A sphere of radius 9 cm has volume:
a) $81 \pi \mathrm{~cm}^{3}$
b) $324 \pi \mathrm{~cm}^{2}$
c) $729 \mathrm{~cm}^{3}$
d) $729 \pi \mathrm{~cm}^{3}$
e) $972 \pi \mathrm{~cm}^{3}$

Q.5. A sphere of radius 6 cm has surface area:
a) $12 \pi \mathrm{~cm}^{2}$
b) $36 \mathrm{~cm}^{2}$
c) $36 \pi \mathrm{~cm}^{2}$
d) $144 \pi \mathrm{~cm}^{2}$
e) $288 \pi \mathrm{~cm}^{2}$

Q.6. A cylinder radius 7 cm and height 10 cm has volume:
a) $70 \mathrm{~cm}^{3}$
b) $70 \pi \mathrm{~cm}^{3}$
c) $140 \pi \mathrm{~cm}^{3}$
d) $490 \mathrm{~cm}^{3}$
e) $490 \pi \mathrm{~cm}^{3}$

Q.7. A cylinder of diameter 10 cm and height 12 cm has surface area:
a) $145 \pi \mathrm{~cm}^{2}$
b) $170 \pi \mathrm{~cm}^{2}$
c) $240 \pi \mathrm{~cm}^{2}$
d) $340 \pi \mathrm{~cm}^{2}$
e) $440 \pi \mathrm{~cm}^{2}$

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

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

$\qquad$
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.

$\qquad$

