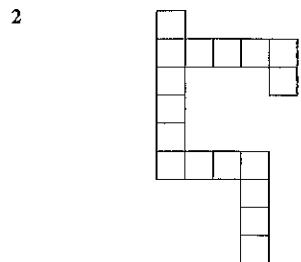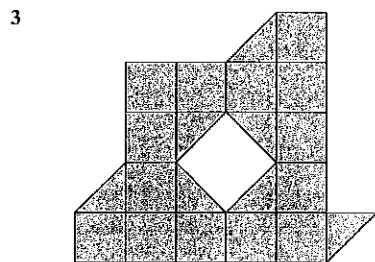# Test Yourself   Chapter 12 Area, volume and capacity

All Multiple Choice

Name: _____

1 The most appropriate units to measure the area of a classroom would be:
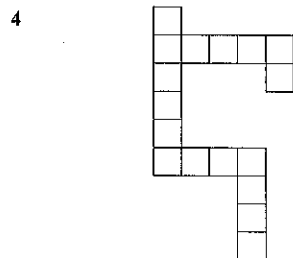A km^2
B   ha
C m^2
D cm^2

2

The area of the above shape, in which each square has an area of $1\ cm^2$, is:
A $14\ cm^2$
B $15\ cm^2$
C $17\ cm^2$
D $19\ cm^2$

3

The area of the shaded shape above is:
A $13\ cm^2$
B $14.5\ cm^2$
C $17\ cm^2$
D $17.5\ cm^2$

4
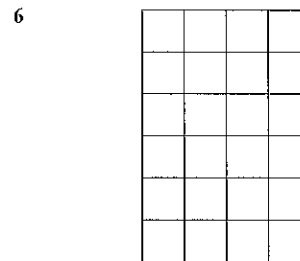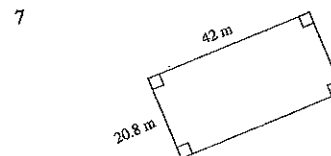
The perimeter of the above shape, in which each square has an area of $1\ cm^2$, is:
A   30 cm
B   36 cm
C   37 cm
D   40 cm

5
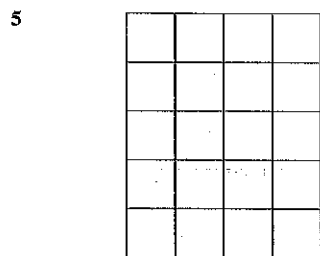
The most accurate estimate for the area of the shaded shape is:
A $8\ cm^2$
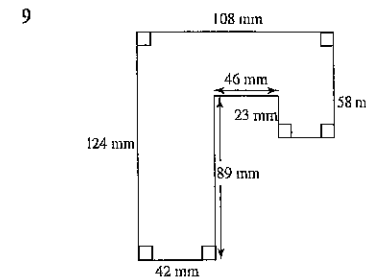B $20\ cm^2$
C $12\ cm^2$
D $16\ cm^2$

6

The area of the rectangle shown above, in which each square has an area of $1\ cm^2$, is:
A $10\ cm^2$
B $16\ cm^2$
C $18\ cm^2$
D $24\ cm^2$

7

The area of the rectangle above is:
A $62.8\ m^2$
B $125.6\ m^2$
C $873.6\ m^2$
D $1298.0\ m^2$

8 The perimeter of the rectangle in question **7** is:
A   62.8 m
B   83.6 m
C   98.4 m
D   125.6 m

9

The area of the above shape is:
A $3780\ mm^2$
B $6734\ mm^2$
C $7518\ mm^2$
D $7978\ mm^2$

10
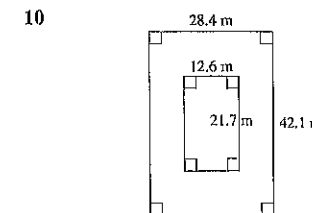
The Tudor family want to pave the area around their new swimming pool, as shown above. The area that they will need to pave is:
A $209.6\ m^2$
B $876.32\ m^2$
C $922.22\ m^2$
D $1195.64\ m^2$

11 If the Tudor family wished to put a border around their new paving in question **10**, the length that this would need to be is:
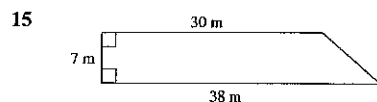A   141 m
B   98.4 m
C   70.5 m
D   45.92 m

12 Wallpaper sheets are 2.2 m wide and
6.5 m long. How many sheets would
be needed to cover a wall which has an
area of 42 m²?
A   1
B   3
C   6
D   10

13 31 000 000 m² is equal to:
A   31 000 cm²
B   0.00031 km²
C   0.31 km²
D   31 km²
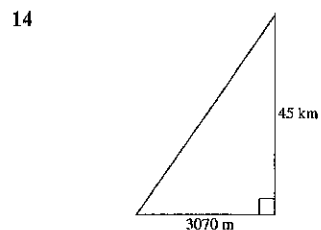
14

The area of the triangle above is:
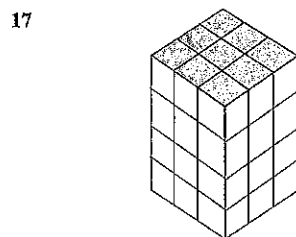A   69.075 m²
B   138.15 m²
C   69.075 km²
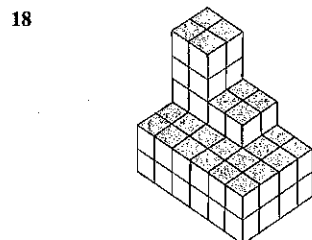D   138.15 km²

15

The area of the shape above is:
A   75 m²
B   210 m²
C   238 m²
D   266 m²

16 The volume of a removalists box
which is 2 m wide, 3.4 m high and
2.6 m long is:
A   8 m³
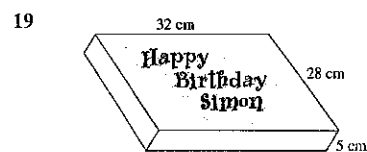B   9.4 m³
C   15.3 m³
D   17.68 m³

17

The volume of the rectangular prism
above, in which each cube has a
volume of 1 cm³, is:
A   36 cm³
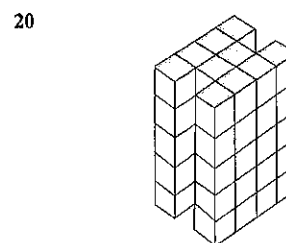B   38 cm³
C   40 cm³
D   42 cm³

18

The volume of the solid shape above,
in which each cube has a volume of
1 cm³, is:
A   58 cm³
B   64 cm³
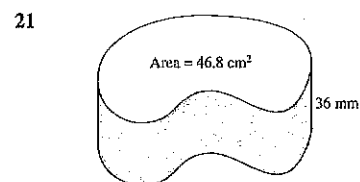C   66 cm³
D   76 cm³

19

The chocolate mud cake shown above
is in the shape of a rectangular prism
and is to be divided amongst
40 people. The amount of cake that
each person will receive is:
A   64 cm³
B   75 cm³
C   100 cm³
D   112 cm³
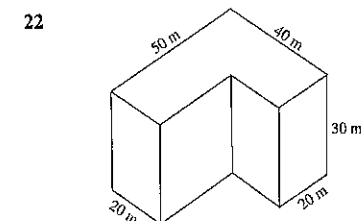
20

The volume of the prism above, in
which each cube has a volume of
1 cm³, is:
A   36 cm³
B   42 cm³
C   50 cm³
D   55 cm³

21

The volume of the prism above is
A   1684.8 mm³
B   16 848 mm³
C   168.48 cm³
D   16 848 cm³

22

The volume of the prism shown above
is:
A   16 000 m³
B   42 000 m³
C   48 000 m³
D   50 000 m³

23 56 000 mL is equal to:
A   0.056 L
B   0.56 L
C   5.6 L
D   56 L

24 Seven one-litre bottles of lemonade
are to be used to fill a number of
350-mL glasses. The number of full
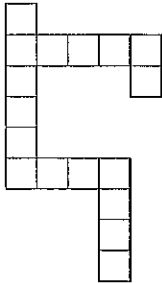glasses obtained would be:
A   20
B   22
C   25
D   26

..\Test Yourself answers\MQ7 NSW Ch12 TY
ans.doc

Test Yourself   Chapter 12 Area, volume and capacity

Name: _____

All Multiple Choice

1   The most appropriate units to measure   **C**
the area of a classroom would be:
A   km^2
B   ha
C   m^2
D   cm^2

2   **C**

The area of the above shape, in which
each square has an area of 1 cm^2, is:
A   14 cm^2
B   15 cm^2
C   17 cm^2
D   19 cm^2

3   **D**
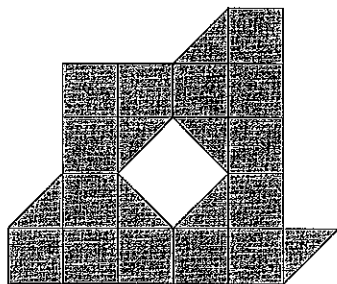
The area of the shaded shape above is:
A   13 cm^2
B   14.5 cm^2
C   17 cm^2
D   17.5 cm^2
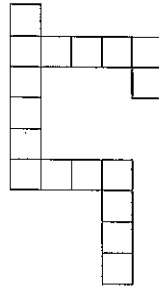
4   **B**
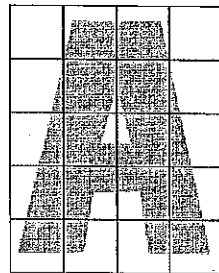
The perimeter of the above shape, in
which each square has an area of
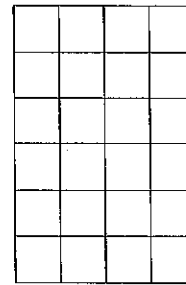1 cm^2, is:
A   30 cm
B   36 cm
C   37 cm
D   40 cm

5   **B**

The most accurate estimate for the
area of the shaded shape is:
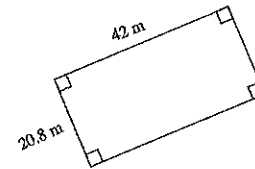A   8 cm^2
B   10 cm^2
C   12 cm^2
D   16 cm^2

6   **D**

The area of the rectangle shown
above, in which each square has an
area of 1 cm^2, is:
A   10 cm^2
B   16 cm^2
C   18 cm^2
D   24 cm^2

7   **C**

42 m   20.8 m

The area of the rectangle above is:
A   62.8 m^2
B   125.6 m^2
C   873.6 m^2
D   1298.0 m^2

8   The perimeter of the rectangle in   **D**
question **7** is:
A   62.8 m
B   83.6 m
C   98.4 m
D   125.6 m

9   **D**

108 mm   46 mm   58 mm   23 mm   124 mm   89 mm   42 mm

The area of the above shape is:
A   3780 mm^2
B   6734 mm^2
C   7518 mm^2
D   7978 mm^2

10   **C**

28.4 m   12.6 m   21.7 m   42.1 m

The Tudor family want to pave the
area around their new swimming pool,
as shown above. The area that they
will need to pave is:
A   209.6 m^2
B   876.32 m^2
C   922.22 m^2
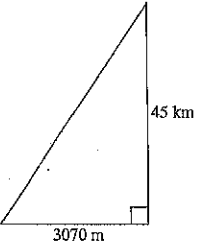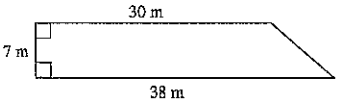D   1195.64 m^2

11   If the Tudor family wished to put a   **A**
border around their new paving in
question **10**, the length that this would
need to be is:
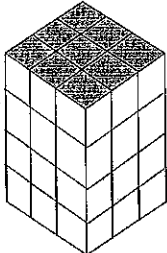A   141 m
B   98.4 m
C   70.5 m
D   45.92 m

12   Wallpaper sheets are 2.2 m wide and   B
6.5 m long. How many sheets would
be needed to cover a wall which has an
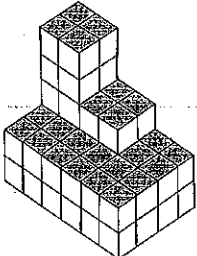area of 42 m²?
A   1
B   3
C   6
D   10

13   31 000 000 m² is equal to: D
A   31 000 cm²
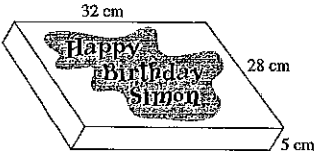B   0.00031 km²
C   0.31 km²
D   31 km²

14   C

The area of the triangle above is:
A   69.075 m²
B   138.15 m²
C   69.075 km²
D   138.15 km²

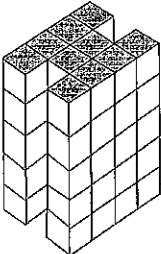**15**   C

The area of the shape above is:
A   75 m²
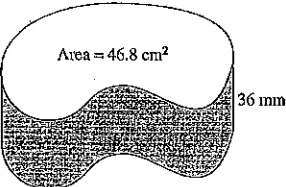B   210 m²
C   238 m²
D   266 m²

16   The volume of a removalists box   D
which is 2 m wide, 3.4 m high and
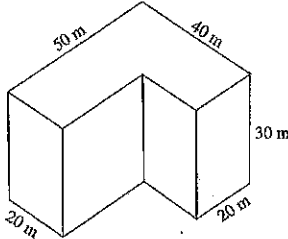2.6 m long is:
A   8 m³
B   9.4 m³
C   15.3 m³
D   17.68 m³

17   A

The volume of the rectangular prism
above, in which each cube has a
volume of 1 cm³, is:
A   36 cm³
B   38 cm³
C   40 cm³
D   42 cm³

18   B

The volume of the solid shape above,
in which each cube has a volume of
1 cm³, is:
A   58 cm³
B   64 cm³
C   66 cm³
D   76 cm³

19   D

The chocolate mud cake shown above
is in the shape of a rectangular prism
and is to be divided amongst
40 people. The amount of cake that
each person will receive is:
A   64 cm³
B   75 cm³
C   100 cm³
D   112 cm³

20   C

The volume of the prism above, in
which each cube has a volume of
1 cm³, is:
A   36 cm³
B   42 cm³
C   50 cm³
D   55 cm³

21   C

The volume of the prism above is:
A   1684.8 mm³
B   16 848 mm³
C   168.48 cm³
D   16 848 cm³

22   B

The volume of the prism shown above
is:
A   16 000 m³
B   42 000 m³
C   48 000 m³
D   50 000 m³

23   56 000 mL is equal to: D
A   0.056 L
B   0.56 L
C   5.6 L
D   56 L

24   Seven one-litre bottles of lemonade   A
are to be used to fill a number of
350-mL glasses. The number of full
glasses obtained would be:
A   20
B   22
C   25
D   26