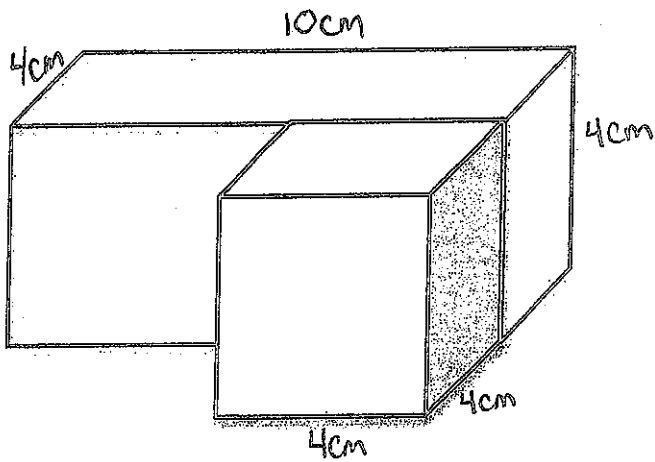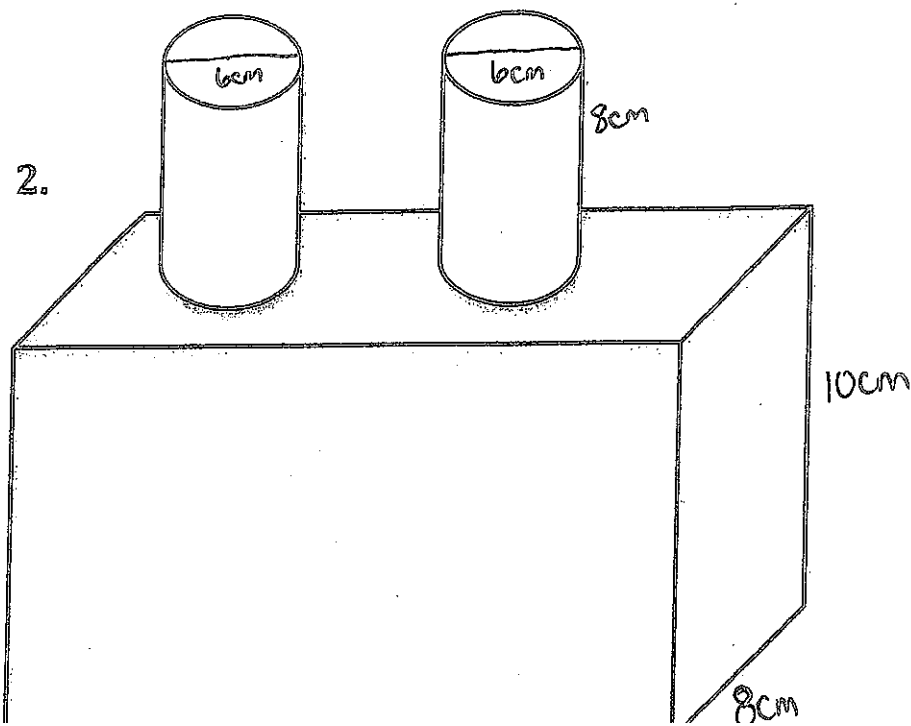Name:_____

Find the surface area of the following composite objects,
remember to show your: formula, work, answer and the
units

Don't forget to include the overlap

1.

2.

3.

2cm
5cm
3cm
5cm
4cm
6cm
1cm
15cm

4.

4cm
6cm
10cm
3cm

5.

6m
5m
4m
3m
3m
7m
5m

Name:_____

Find the surface area of the following composite objects, remember to show your: formula, work, answer and the units
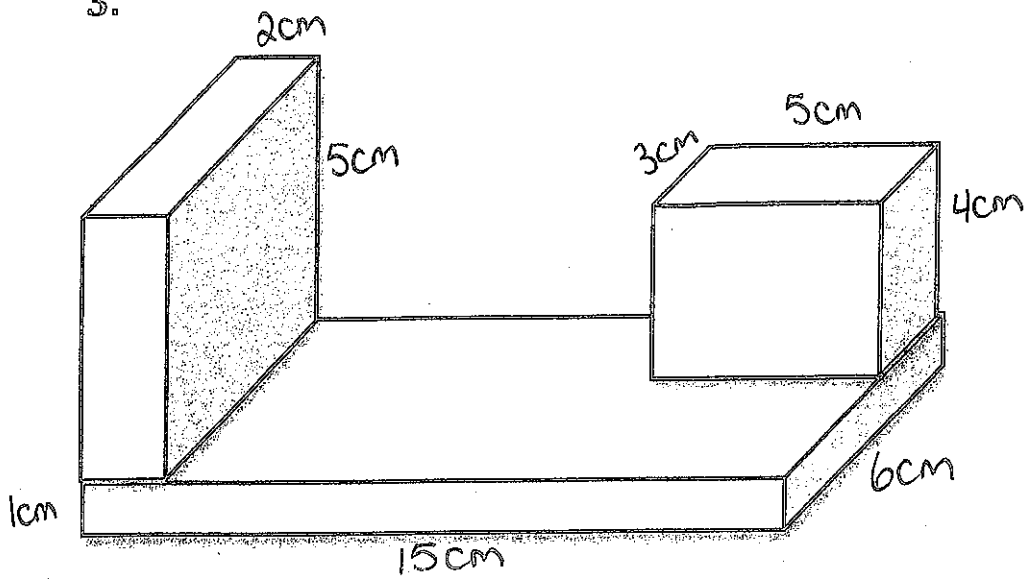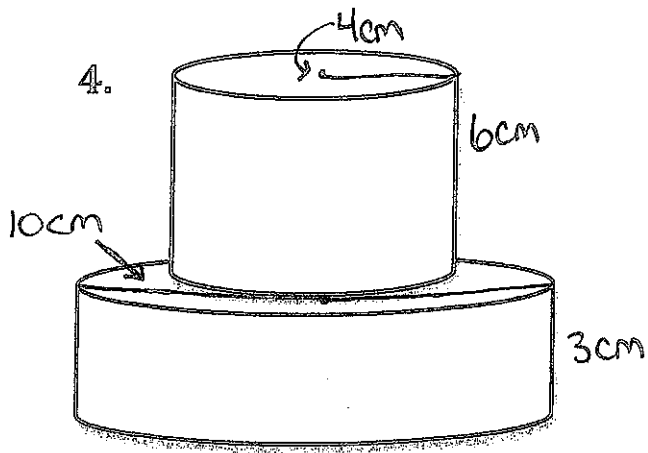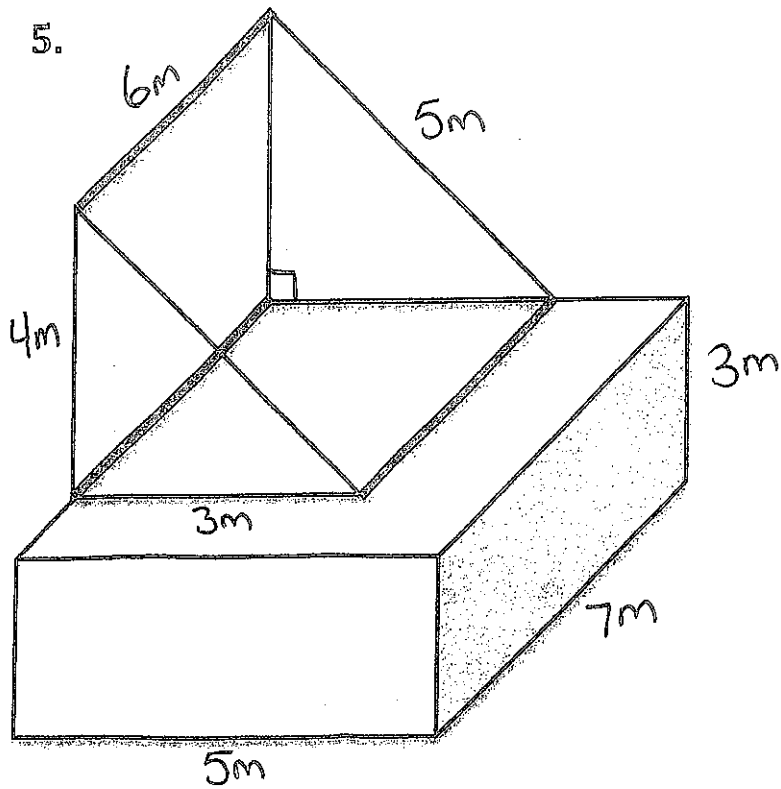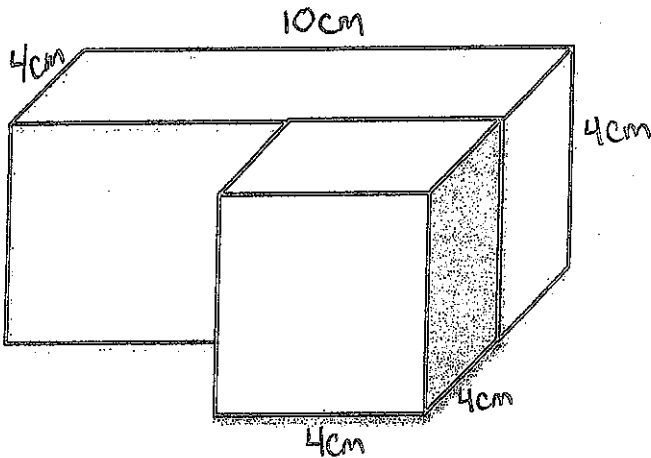
Don't forget to include the overlap

1.

10cm

4cm

4cm

4cm

4cm

4cm

$SA = 6s^2$
$= 6(4^2)$
$= 6(16)$
$= 96cm^2$

$SA = 2LW + 2LH + 2WH$
$= 2(10)(4) + 2(10)(4) + 2(4)(4)$
$\quad 80 \quad + \quad 80 \quad + \quad 32$
$\qquad\qquad = 192cm^2$

$SA = 192 + 96 - 32 = 256cm^2$

2.

6cm

6cm

8cm

10cm

8cm

$SA = 2\pi rh$
$= 2(3.14)(3)(8)$
$= 150.72$
$\qquad \times 2$
$\overline{\quad 301.44cm^2}$
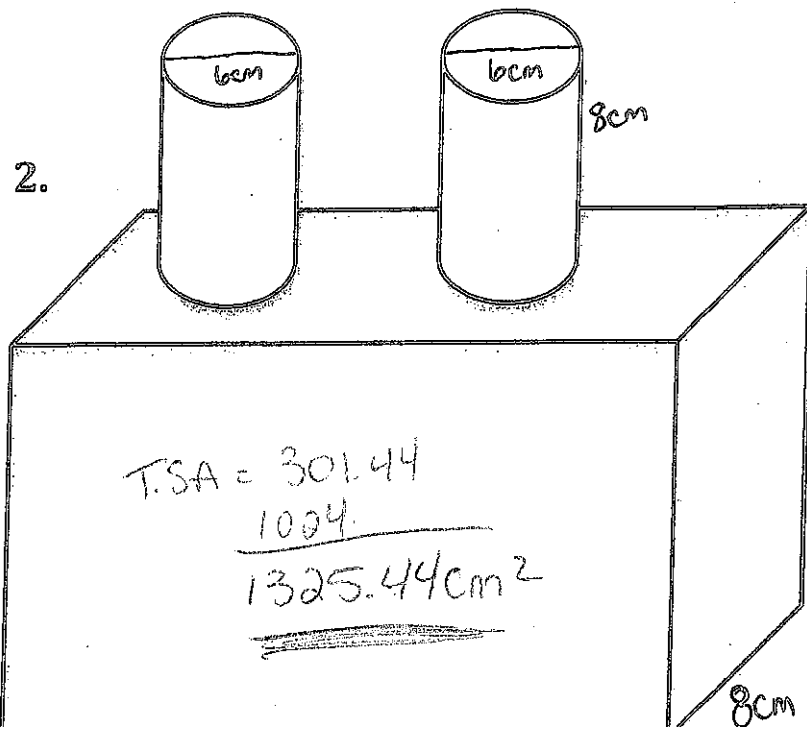
$T.SA = 301.44$
$\quad\underline{1024}$
$\quad 1325.44cm^2$

$SA = 2LW + 2LH + 2WH$
$= 2(24)(8) + 2(24)(10)$
$\qquad\qquad\qquad + 2(8)(10)$

$384 + 480 + 160$
$= 1024cm^2.$

3.

2cm
5cm
3cm
5cm
4cm
6cm
1cm
15cm

$366 cm^2$

4.

4cm
6cm
10cm
3cm
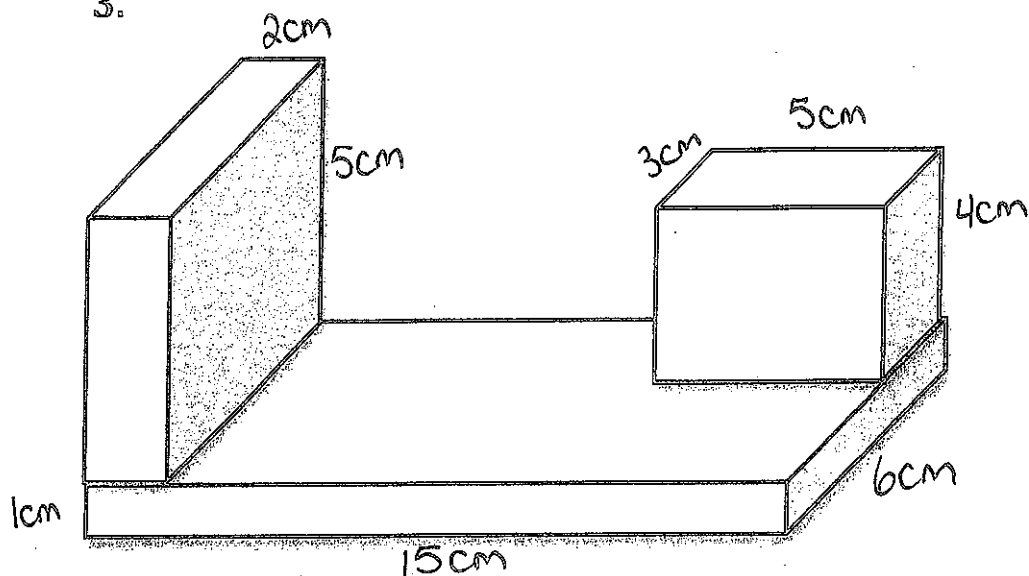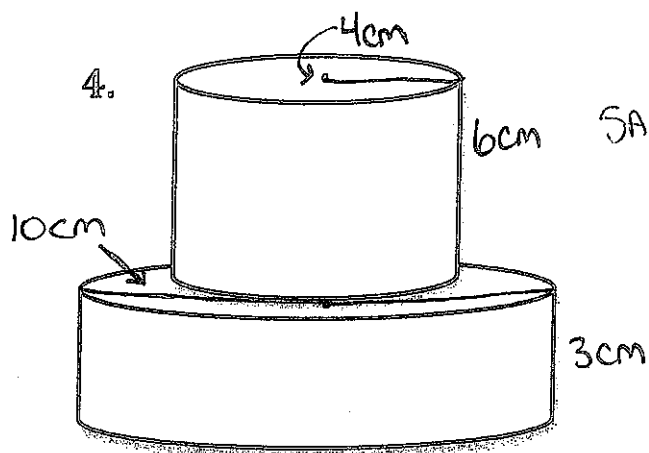
$SA = 2\pi r h$
$= 2(3.14)(4)(6)$
$= 150.72 cm^2$

$= 2\pi r^2 + 2\pi r h$
$= 2(3.14)(5^2) + 2(3.14)(5)(3)$
$157 + 94.2$
$251.2 cm^2$

$SA = 401.92 cm^2$

5.

6m
5m
4m
3m
3m
7m
5m
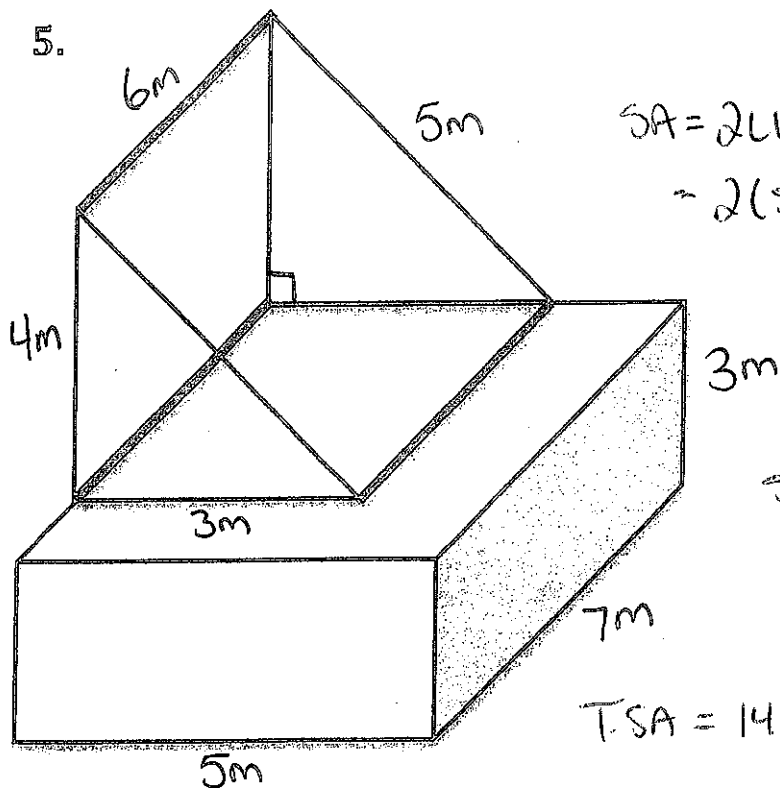
$SA = 2LW + 2LH + 2WH$
$= 2(5)(7) + 2(5)(3) + 2(7)(3)$
$70 + 30 + 42$
$142 cm^2$

$SA = bh + LW + LW + LW$
$= 4(3) + 4(6) + 5(6) + 3(6)$
$12 + 24 + 30 + 18$
$= 84 cm^2$

$TSA = 142 + 84 - 36 = 190 cm^2$