## Exam Style Questions

## Surface Area: Cube/Cuboids

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser
You may use tracing paper if needed

## Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

6. Shown below is a cube of side 5 cm .


Work out the total surface area of the cube.

$$
6 \times 25
$$

150 cm
(2)
2. Calculate the total surface area of a cube with side length 7 cm .

$$
\begin{gathered}
7 \times 7=49 \\
6 \times 49
\end{gathered}
$$

(2)

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3. Part of a net for a cuboid is shown on the centimetre grid below.

(a) Complete the net of the cuboid.
(2)
(b) Work out the total surface area of the cuboid.

State the units of your answer.

## $38 \mathrm{~cm}^{2}$

(3)
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4. Shown below is solid cuboid.


Work out the total surface area of the cuboid.

$$
\begin{aligned}
& 9 \times 2=18 \\
& 2 \times 3=6 \\
& 9 \times 3=27
\end{aligned}
$$



102 $\mathrm{cm}^{2}$
(3)
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5. Here is a cuboid.


Calculate the surface area of the cuboid.
 (3)
6.


Work out the surface area of this cuboid.
State the units of your answer.

$550 \mathrm{~cm}^{2}$
(3)

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7. A cuboid has volume of $120 \mathrm{~cm}^{3}$. The area of the base of the cuboid is $30 \mathrm{~cm}^{2}$.

Work out the surface area of the cuboid.

# This will vary based on the dimensions chosen for the base. 



Base of width 3 cm and length $10 \mathrm{~cm} . S A=164 \mathrm{~cm}^{2} \quad \underset{(3)}{\mathrm{cm}^{2}}$
Base of width 2 cm and length $15 \mathrm{~cm} . S A=196 \mathrm{~cm}^{2}$
Base of width 1 cm and length 30 cm . $S A=308 \mathrm{~cm}^{2}$
Base of width 5 cm and length $6 \mathrm{~cm} . S A=148 \mathrm{~cm}^{2}$
and so on...
8. Shown below are two cuboids.


Both cuboids have the same surface area.


