Work out the area of the triangle.


5 cm
Calculate the area of the triangle.


Bronze A

This large triangle has an area $64 \mathrm{~cm}^{2}$ and is made up of 16 congruent equilateral triangles. Calculate the area of the purple triangle.

$$
1
$$

a) Right angled triangle with an area of $8 \mathrm{~cm}^{2}$ on the grid below. Label it A.
b) Draw an isosceles triangle with an area of $10 \mathrm{~cm}^{2}$ on the grid below. Label it B.

$$
1
$$

Silver K
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The diagram shows a square with an area of $49 \mathrm{~cm}^{2}$. Work out the proportion of the area inside the square that is shaded.


Gold
This shape is made up of congruent rightangled triangles. Find the total area of the


## Timester Challenge Area of a Triangle Answers

Work out the area of the triangle.


5 cm
Bronze
Calculate the area of the triangle.


$$
\frac{8 \times 6}{2}=\frac{48}{2}=24 m^{2}
$$

Bronze ch
This large triangle has an area $64 \mathrm{~cm}^{2}$ and is e up of 16 congruent equilateral triangles.
Calculate the area of the purple triangle. $64 \div 16=4 \mathrm{~cm}^{2}$ per Triangle $4 \times 4=16 \mathrm{~cm}^{2}$ purple Triangle
a) Right angled triangle with an area of $8 \mathrm{~cm}^{2}$ on the grid below. Label it A.
b) Draw an isosceles triangle with an area of $10 \mathrm{~cm}^{2}$ on the grid below. Label it B.


Silver is

The diagram shows a square with an area of $49 \mathrm{~cm}^{2}$. Work out the proportion of the area inside the square that is shaded.

$$
\text { Square } 7 \times 7=49 \mathrm{~cm}^{2}
$$



$$
\text { Area } \mathrm{A}: \frac{7 \times 2}{2}=7 \mathrm{~cm}^{2}
$$

$$
\text { Area } \mathrm{B}: \frac{3 \times 5}{2}=7.5 \mathrm{~cm}^{2}
$$

$$
\text { Area } \mathrm{C}: \frac{7 \times 3}{2}=10.5 \mathrm{~cm}^{2}
$$

Shaded Area

$$
=49-(7+7.5+10.5)
$$

$$
\begin{gathered}
=24 \mathrm{~cm}^{2} \\
\text { Proportion }=\frac{24}{49} \text { Gold }
\end{gathered}
$$

This shape is made up of congruent rightangled triangles. Find the total area of the


