3 Use Pythagoras' theorem to calculate the perpendicular height of each face and then calculate the surface area of each pyramid. Give the answers in surd form.

\[ AB = 10 \text{ cm} \]
\[ EO = 12 \text{ cm} \]

4 Calculate the surface area of the following pyramids. Give all answers correct to one decimal place where necessary.

\[ \text{a} \]
\[ \text{b} \]
\[ \text{c} \]

5 Find the surface area of:

\[ \text{a} \] a square pyramid, base edge 6 cm, height 5 cm
\[ \text{b} \] a rectangular pyramid, base 7 cm by 3 cm, height 10 cm

6 Find the surface area of the following solids. Give all answers correct to three significant figures.

\[ \text{a} \]
\[ \text{b} \]
\[ \text{c} \]

7 Find the surface area of a pyramid that has a regular hexagonal base of edge 6 cm and a height of 8 cm.

8 A square pyramid has to have a surface area of 2000 cm\(^2\). If the base edge is 20 cm, calculate:

\[ \text{a} \] the perpendicular height, \( x \) cm, of one of the triangular faces
\[ \text{b} \] the perpendicular height, \( h \) cm, of the pyramid