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| **Similar Shapes Revision** |
| **(a)** | **(b)** | **(c)** |
| Triangles ABC and DEF are similar. Calculate the lengths of DE and AC. | Rectangles A and B are mathematically similar. The area of A is $40 cm^{2}$. Work out the area of rectangle B. | Find the missing length $x$. |
| **(d)** | **(e)** | **(f)** |
| Cylinders A and B are similar. The volume of cylinder B is $2080 cm^{3}$. Find the volume of cylinder A. | Find the missing lengths $x$ and $y$. | Cuboids A and B are similar. A has a volume of $28 cm^{3} $and B has a volume of $437.5 cm^{3}$. Find the length $L$. |
| **(g)** | **(h)** | **(i)** |
| Cones A and B are mathematically similar. Cone A has a volume of $857.5 cm^{3}$ and a surface area of $73.5 cm^{2}$. Cone B has a volume of $160 cm^{3}$. Find its surface area. | The area of the white triangle is $18 cm^{2}$. Find the area of the shaded region. | Pentagons A and B are similar. The scale factor of their lengths is $x$. The area of A is $12 cm^{2}$. If the area of B is $(16x+3) cm^{2}$, find the value of $x$. |