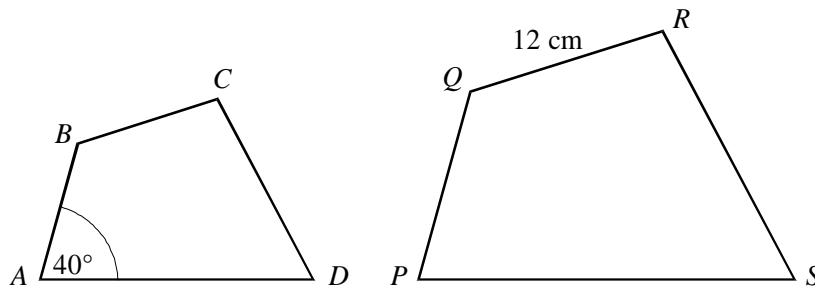
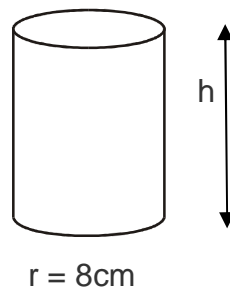


HIGHER Practice paper D

- Solve the equation $3(x - 4) = 2 - 4x$
- Find the **surface area** of a cuboid measuring 3cm by 4cm by 5cm.
- $PQRS$ is an enlargement with scale factor 1.5 of $ABCD$.



- Calculate the length of BC .
 - Write down the size of angle QPS .
- The diagram shows a cylinder. It has a volume of 320cm^3 and a base radius of 8cm. Find the height of the cylinder. Give your answer to 1 decimal place.



- James invests £2700 for 3 years at 4% per year compound interest. How much does he earn at the end of the investment?
- Make x the **subject** of the formula $y = mx + c$
- Solve the inequality $3x - 8 > x + 5$
- Express 780 000 000 in standard form.
- Solve by elimination, the following simultaneous equations

$$\begin{aligned} x + 3y &= 10 \\ 3x + 2y &= 16 \end{aligned}$$

- Expand and simplify $(a + b)^2 - ab$