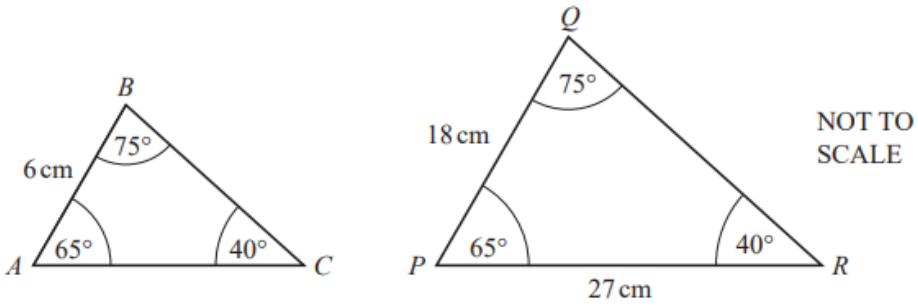
Q1. (June 2019 v1)

17



(a) Explain why triangle ABC and triangle PQR are similar.

.....

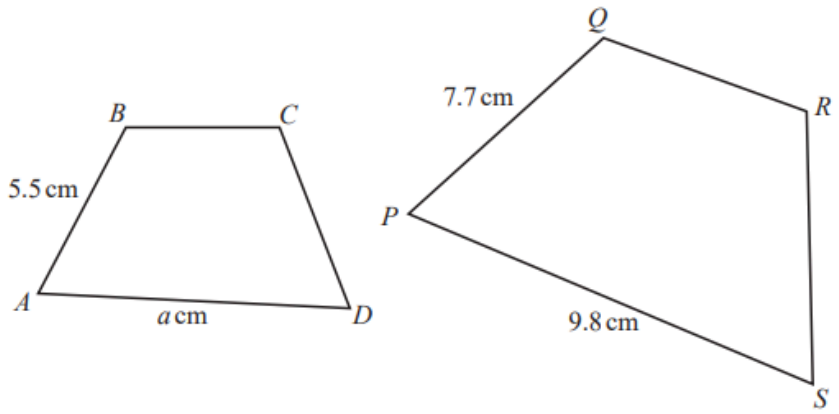
..... [1]

(b) Find AC.

$AC =$ ..... cm [2]

Q2. (June 2019 v3)

18



NOT TO SCALE

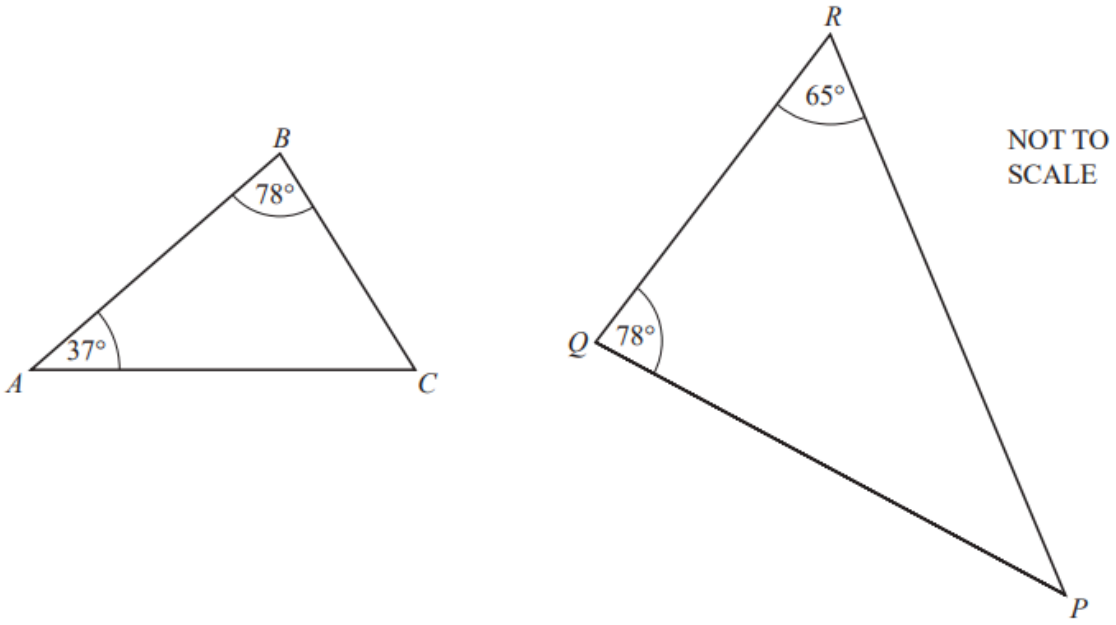
Shape $ABCD$ is similar to shape $PQRS$.

Work out the value of a.

$a =$ ..... [2]

Q3. (June 2020 v1)

23



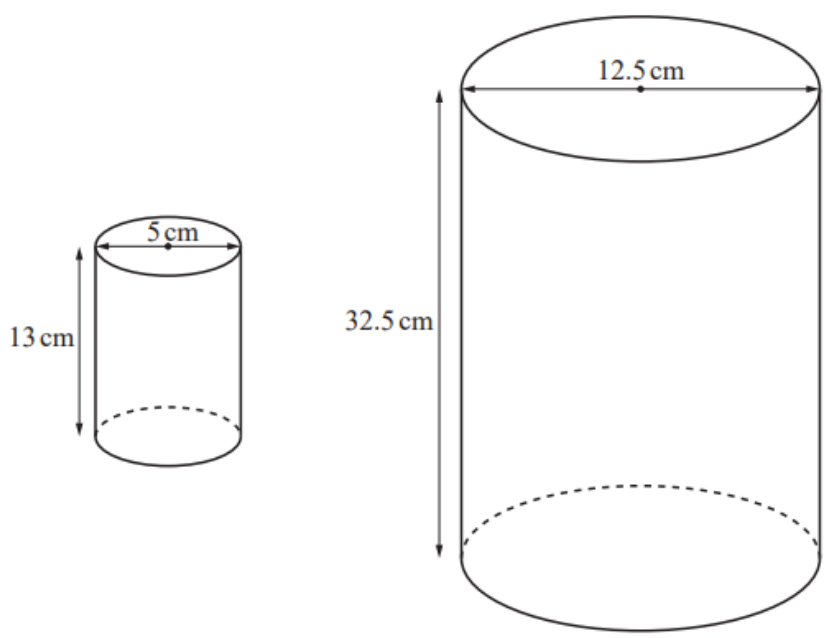
Explain why triangle ABC is similar to triangle PQR.

.....

..... [2]

Q4. (June 2021 v2)

20



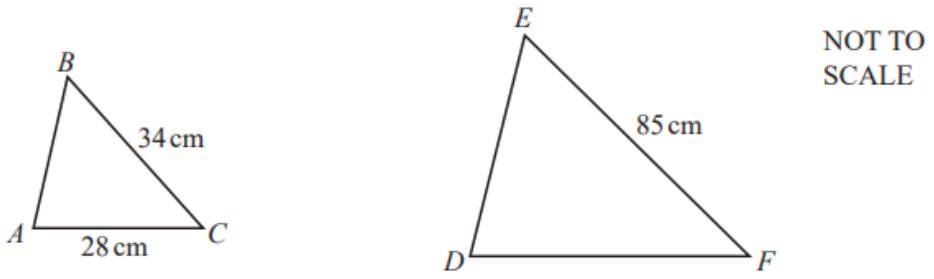
The diagram shows two cylinders.

Show that the two cylinders are mathematically similar.

[2]

Q5. (June 2021 v3)

22



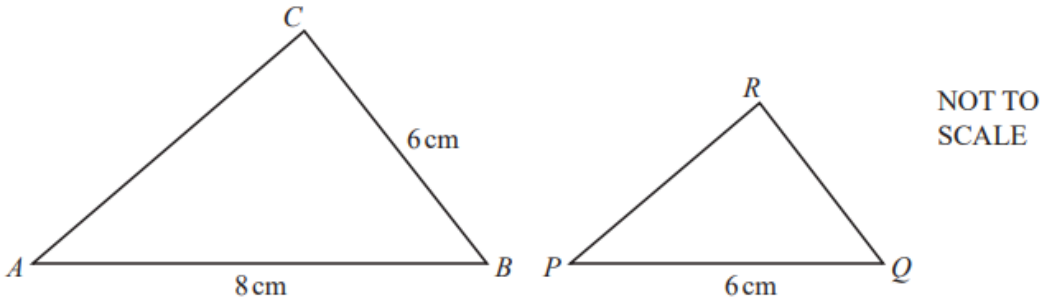
Triangle ABC is similar to triangle DEF.

Calculate DF.

$DF =$ ..... cm [2]

Q6. (June 2022 v1)

24



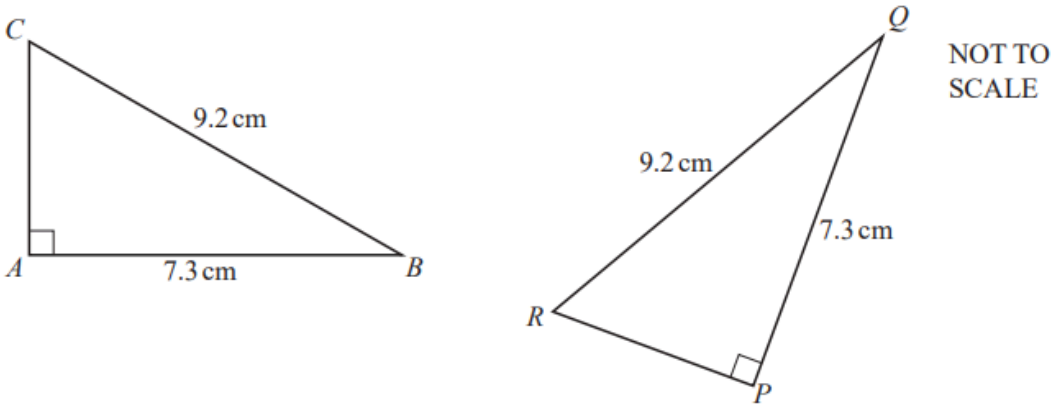
Triangle ABC is mathematically similar to triangle PQR.

Calculate QR.

$QR =$ ..... cm [2]

Q7. (June 2022 v3)

17



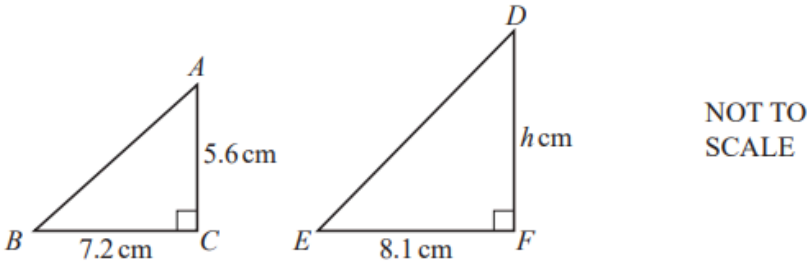
The diagram shows two right-angled triangles, *ABC* and *PQR*.

(a) Complete this statement with a geometrical term.

Triangle *ABC* is ..... to triangle *PQR*. [1]

Q8. (June 2023 v1)

23



Triangle *ABC* is similar to triangle *DEF*.

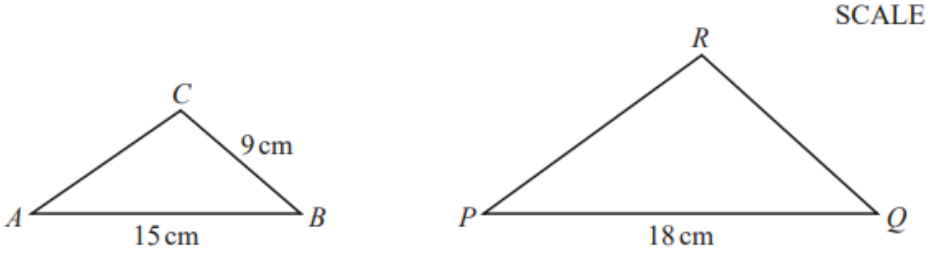
Calculate the value of *h*.

h = ... [2]

Q9. (June 2023 v2)

21

NOT TO SCALE



Triangle ABC is similar to triangle PQR.

Calculate QR.

$QR =$ ..... cm [2]

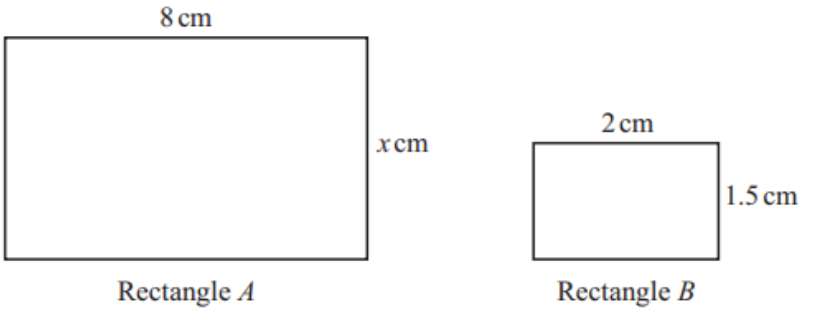
Q10. (June 2025 v3)

(b) Write down the mathematical term that describes two polygons that are the same shape and size.

..... [1]

Q11. (June 2025 v3)

23



NOT TO SCALE

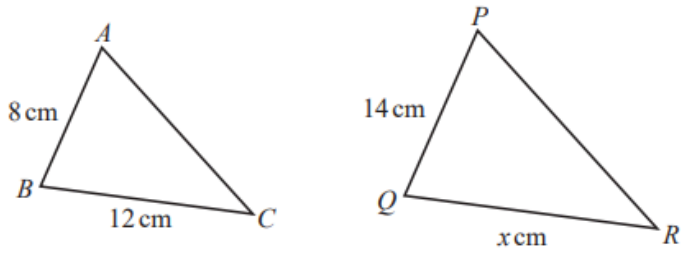
Rectangle A is mathematically similar to rectangle B.

Work out the value of x.

$x =$ ..... [2]

Q12. (Nov 2018 v1)

12



NOT TO SCALE

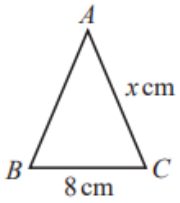
Triangle ABC is similar to triangle PQR.

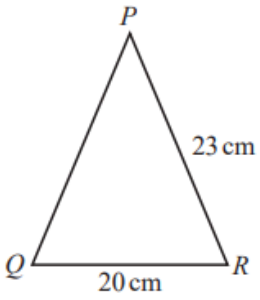
Find the value of x.

$x =$ ..... [2]

Q13. (Nov 2018 v3)

22





NOT TO SCALE

Triangle ABC is similar to triangle PQR.

Find the value of x.

$x =$ ..... [2]

Q14. (Nov 2019 v2)

(c) Quadrilaterals ..... and ..... are congruent. [1]

(d) Quadrilaterals ..... and ..... are similar. [1]

Q15. (Nov 2020 v1)

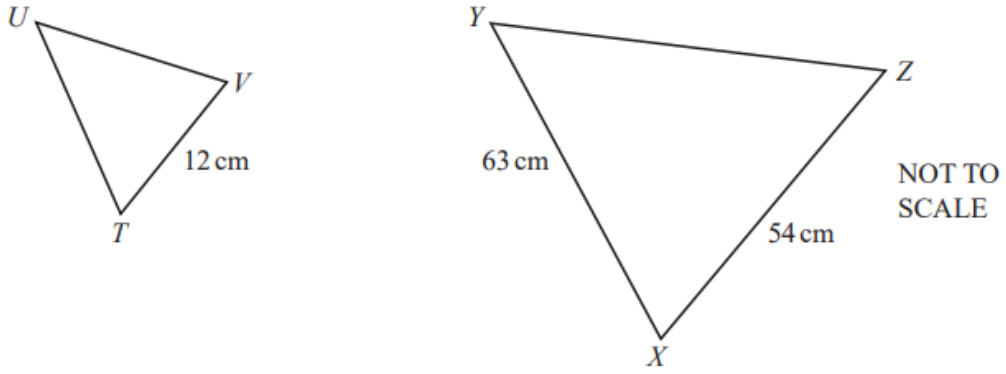
2

hexagon perpendicular isosceles
regular congruent

Put a ring around the word that describes two polygons that are the same shape and size. [1]

Q16. (Nov 2020 v2)

23



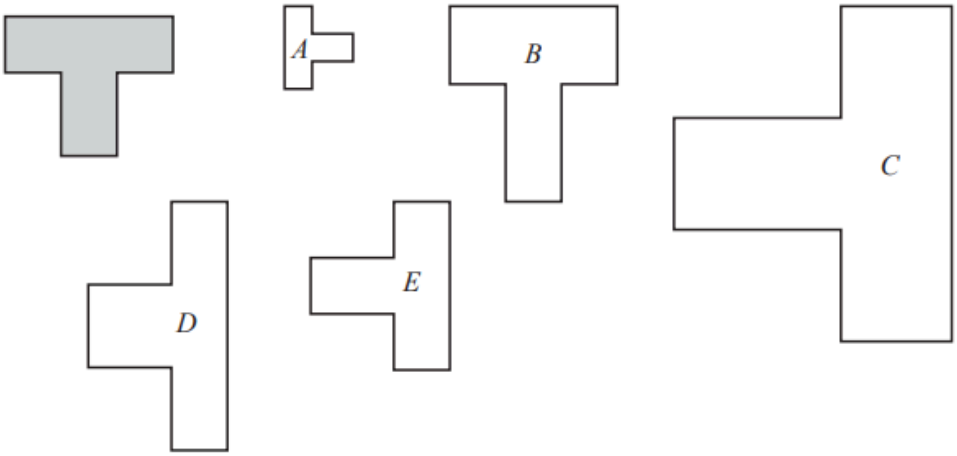
The diagram shows two similar triangles TUV and XYZ.

Calculate UT.

$UT =$ ..... cm [2]

Q17. (Nov 2021 v1)

4

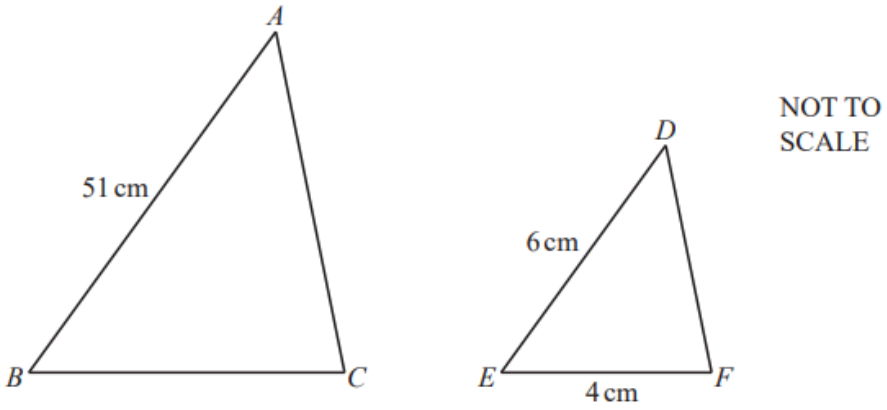


Write down the letter of the shape that is congruent to the shaded shape.

..... [1]

Q18. (Nov 2022 v1)

21



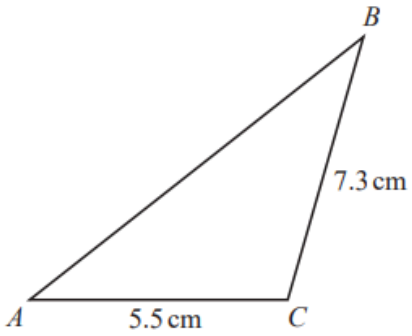
Triangle *ABC* is mathematically similar to triangle *DEF*.

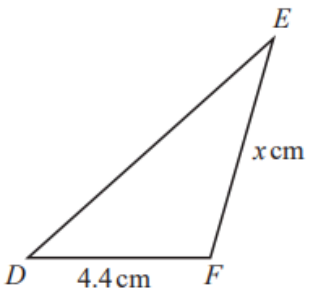
Find *BC*.

BC = ... cm [2]

Q19. (Nov 2023 v2)

24





NOT TO SCALE

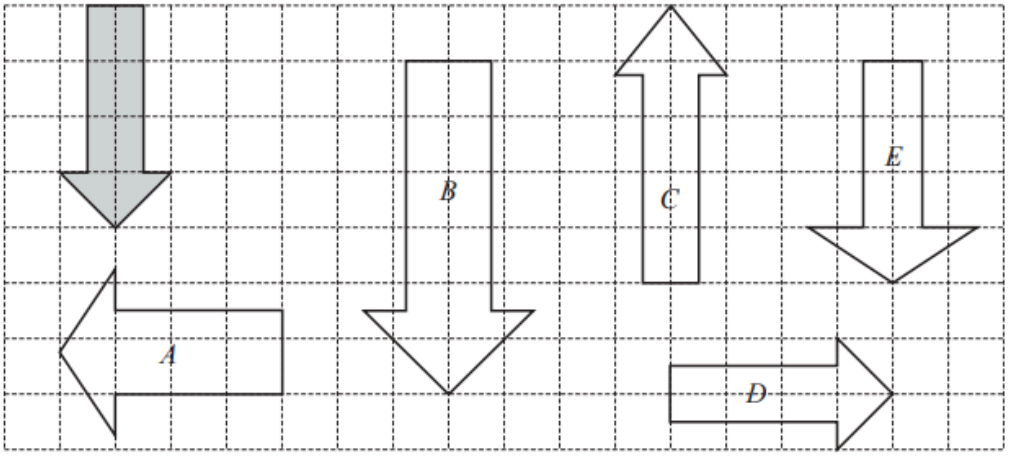
Triangle ABC is mathematically similar to triangle DEF.

Calculate the value of x.

$x =$ ..... [2]

Q20. (Nov 2023 v3)

1

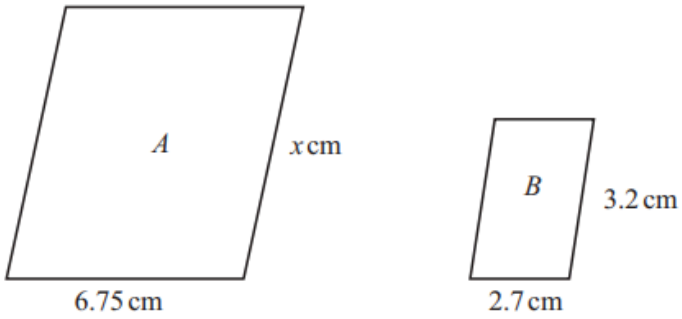


Write down the letter of the shape that is congruent to the shaded shape.

..... [1]

Q21. (Nov 2024 v3)

24



Shape A is mathematically similar to shape B.

Calculate the value of x.

$x =$ ..... [2]