

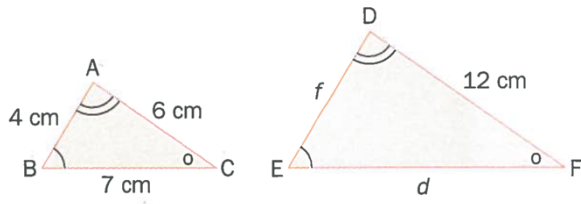
Section 1: Similar Triangles

Task 1 - Communication: Summarize what you learned about the topics in this lesson in the box below. You may use sentences, point form, diagrams, equations, sample problems, or anything else you think will communicate the main learnings of this section.

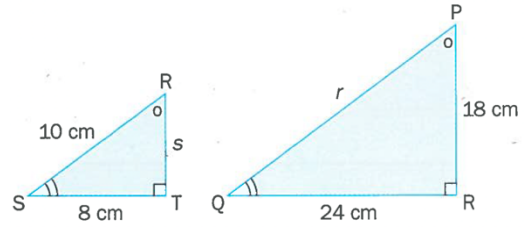
Task 2 - Knowledge: Complete the following practice questions

1) The triangles in each pair are similar. Find the unknown side lengths.

a)

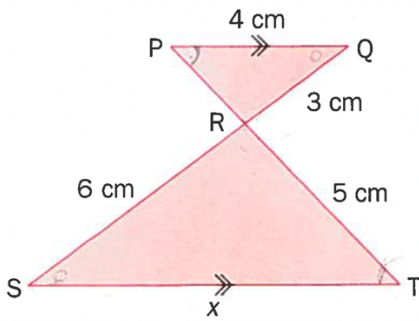


b)

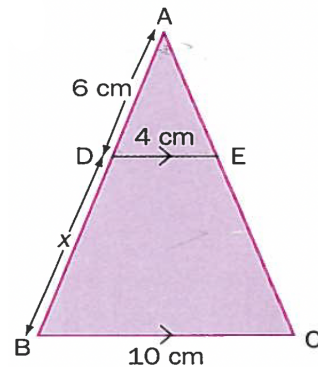


2) Solve for x

a)

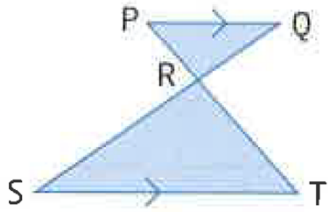


b)

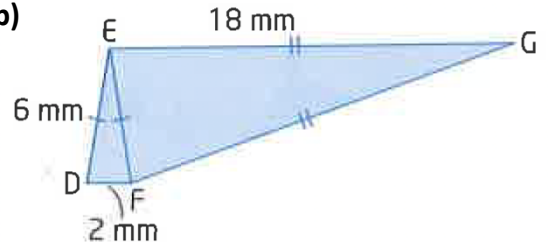


3) Name a pair of similar triangles in each diagram and explain why they are similar.

a)

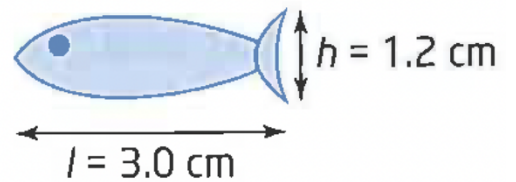


b)



Task 3 – Thinking: Are all equilateral triangles similar? Are all isosceles triangles similar? Justify your answers.

Task 4 – Application: A type of bass grows so that it retains its shape. Its length, height, and width all remain in the same proportion for its first few years of life. The average length, l , and height, h , of a baby bass are shown. The average width, w , of this type of bass is about half its height. If the bass triples in length each month for the first 3 months of life, find the dimensions of this bass after 2 months.



Categories	Level 1	Level 2	Level 3	Level 4
Communication - expression and organization of main topics using written and visual forms. - use of vocabulary, and terminology of the topic	Limited effectiveness	Some effectiveness	Considerable effectiveness	High degree of effectiveness
Knowledge - understands content - can correctly use formulas and perform calculations	Limited effectiveness	Some effectiveness	Considerable effectiveness	High degree of effectiveness
Thinking - understands problem and carries out a plan to solve - makes convincing arguments for why solution is reasonable	Limited effectiveness	Some effectiveness	Considerable effectiveness	High degree of effectiveness
Application - transfer of knowledge and skills to new context - makes connections between various concepts	Limited effectiveness	Some effectiveness	Considerable effectiveness	High degree of effectiveness