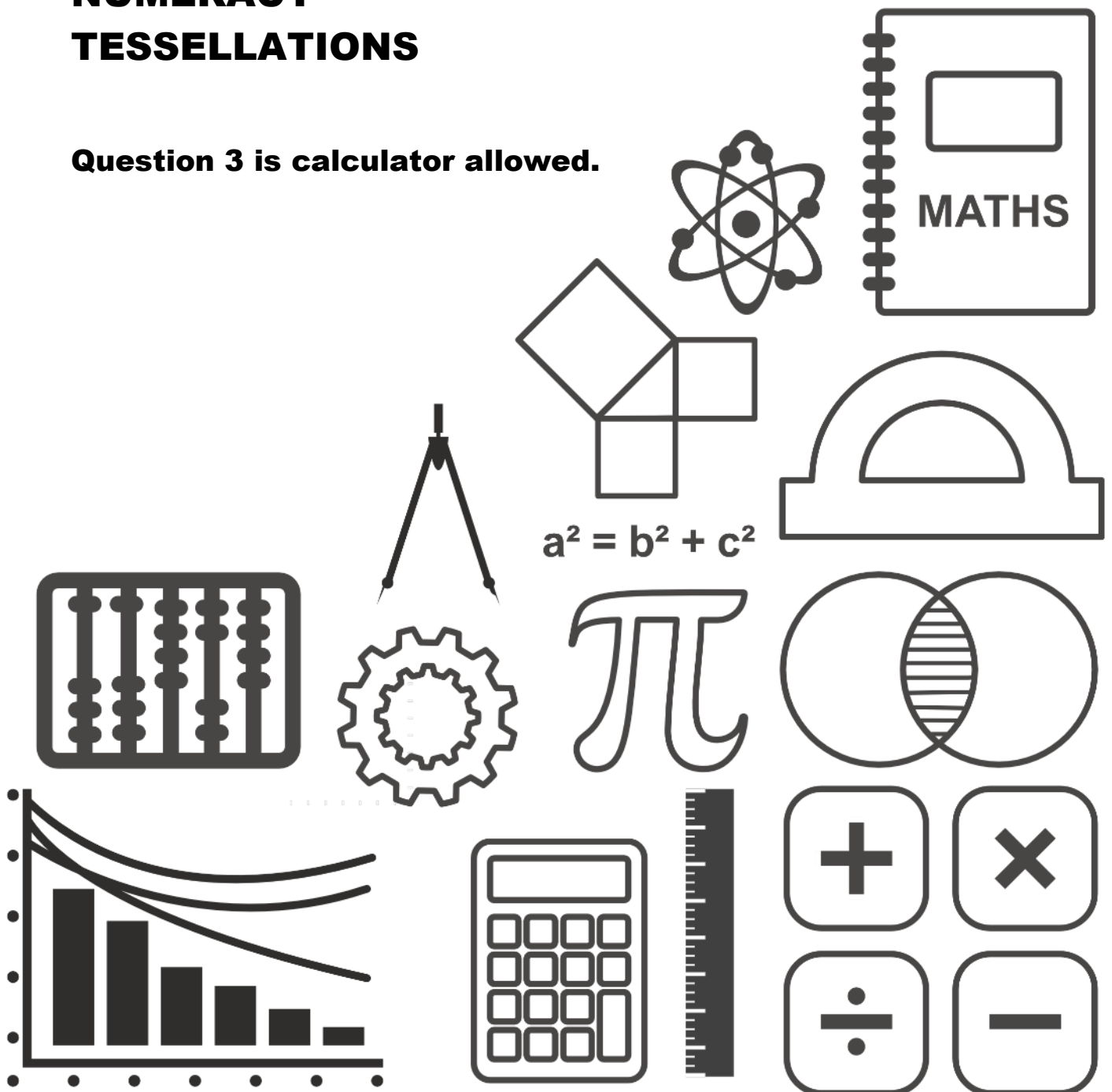


GCSE TOPIC BOOKLET NUMERACY TESSELLATIONS

Question 3 is calculator allowed.



1.

Tref-tiles has 5 boxes of tiles on special offer.
All the tiles in each box are identical.

Box	A	B	C	D	E
Shape of tile	Square	Rhombus	Regular pentagon	Right-angled triangle	Circle

3 of these boxes contain tiles that tessellate.
Manon is asked to select these 3 boxes.
Which **3 boxes** should Manon select?

[2]

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Box, box and box

2.

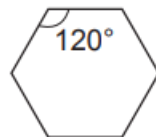
Sam's Garden Centre buys trees to sell.

The trees are planted in identical pots. They each have a uniform cross-section in the shape of a regular hexagon.

Show that these pots will tessellate.

[1]

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3. Gustav is making some scones for his sister's birthday party.

Gustav also makes a birthday cake for his sister.

Gustav also plans to decorate the cake with small pieces of marzipan shaped as shown below.

The top face of each piece of marzipan is a rhombus.
Will these pieces of marzipan tessellate?



Yes No

Draw a simple diagram to support your answer.

[1]