MATH LEAGUE 6TH WEEK SOLUTIONS: CALCULATING THE BLUE AREA:

LET A BE THE AREA OF THE PART COLORED BLUE

LET S BE THE AREA OF THE SEMICIRCLE WITH DIAMETER AQ

LET R BE THE AREA OF THE SEMICIRCLE WITH DIAMETER AP

SINCE
$$2CM = QR = AP = PQ THEN$$

 $a=2s-2r$

$$a = \frac{2^2 \pi}{2} \times 2 - \frac{1^2 \pi}{2} \times 2$$

$$a=4\pi-2\pi$$

$$a=2\pi$$

A=6,28 CM^2

2.

CALCULATING THE LENGTH:

USING THE LAW OF THE COSINE OF AN ACUTE

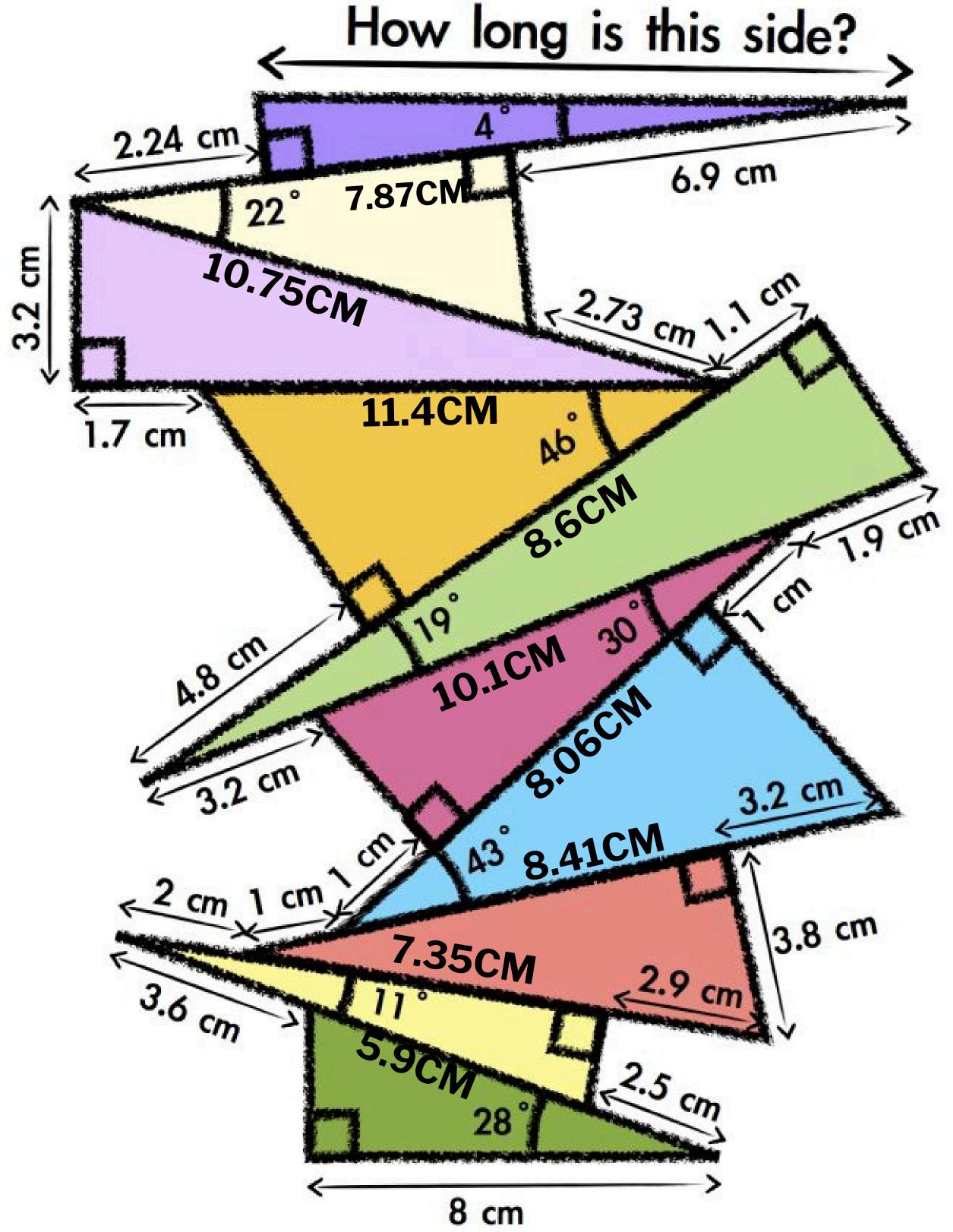
ANGLE IN A RIGHT TRIANGLE AND THE

PYTHAGOREAN THEOREM









THE MISSED LENGH IS 10.79CM



