

Scott builds a pattern using triangles and circles.



a) Draw the next diagram in the pattern.

b) Scott records the number of triangles and circles in a table.

Complete the table.

Number of triangles	1	2	3	4	5
Number of circles	3				

c) c = number of circles and t = number of triangles

Circle the formula that describes the pattern.

$c = t + 3$

$c = 3t$

$t = 3c$

$t = 3 + c$

d) How many circles will there be with 10 triangles?

Show your working.

Solve the clues to find the culprit

Clue 1

Retracing Their Footsteps

Whilst collecting statements from witnesses, you spot distinct muddy footprints running away from the starting line. Reread the witness statements you have taken. If the witness has used parenthesis correctly, give the sentence a tick. If they have not used parenthesis correctly, put a cross. The parenthesis could be shown through commas, brackets or dashes. The number of ticks will reveal the trainer tangler's shoe size.



Statements from Witnesses	✓ or X
One woman – aged around 35 – disappeared just before the race.	
I saw one (fairly short man fleeing) the scene.	
London, especially Greenwich, is the last place I'd expect this to happen.	
My trainers – bought brand new last week – are completely ruined.	
The lady, who I suspect is responsible had, short hair.	
My knees (although not scuffed) still ache from the fall.	
I didn't expect – anyone especially not an athlete – to do this.	
How many suspects (besides myself) will you be interviewing?	
I am positive, although I could be mistaken, that I saw the culprit.	
The woman – a rather loud lady is surely – responsible.	
The marshals, who rushed to my aid, were extremely helpful.	
I remember bumping into that man before (last Tuesday).	

There were _____ ticks so the trainer tangler must wear size _____ shoes.

Complete the daily Sumdog competition



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Compete in the daily spelling league

