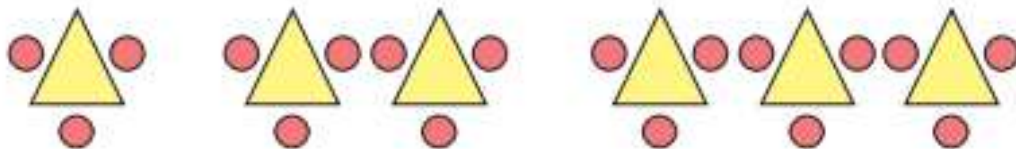


FRIDAY – Fluency Level 1

- 1 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	6	9	12	15

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

Which formula 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. 30

Set A

Look at the formula below:

$$k = 8m$$

What is the value of k when:

- $m = 6$? $3 \times 2 = 6$
- $m = 10$? $5 \times 2 = 10$
 $m = 8$ $4 \times 2 = 8$
- A shirt has 10 buttons. Write a formula for the number of buttons b on s shirts. $b = 10s$

Look at the formula below:

$$R = d \times e$$

What is the value of R when:

- $d = 7$ and $e = 4$? $R = 28$
- $d = 10$ and $e = 2$? $R = 20$
- $e = 9$ and $d = 6$? $R = 54$
- Write a formula for the number of legs L on D dogs. $L = 4D$

- 8 The perimeter p of a triangle with side lengths f , g and h is given by the formula:

$$p = f + g + h$$

What is the value of p when $f = 3$ m, $g = 7$ m and $h = 5$ m?
15P

- 9 Write a formula for the perimeter p of a square with side length s . $S4$
P16