Summative assessment – Questions

## Repetition in shapes

Q1. Draw a box around the part of the pattern that repeats, eg

[⭐⭐⭐🌙🌙]⭐⭐⭐🌙🌙⭐⭐⭐🌙🌙⭐⭐⭐🌙🌙⭐⭐⭐🌙🌙

 ×5

🚀🚀🚀🌈🌈🌈🌈🚀🚀🚀🌈🌈🌈🌈🚀🚀🚀🌈🌈🌈🌈🚀🚀🚀🌈🌈🌈🌈

Q2. In the box below, draw the output for this algorithm as pictures.

 Repeat 3 times

Draw ✳✳✳♡

 Draw ♡✳

|  |
| --- |
|  |

Q3. Following a ‘pen down’ command (PD), which of these commands would draw the longest line?

1. FD 10
2. LT 90
3. FD 50
4. LT 20

Q4. Which of these is an example of a count-controlled loop? (Only one answer is correct.)

1. FD 100 RT 90 FD 100 RT 90
2. REPEAT 2 [FD 100 RT 90]
3. FD 100 FD 100 FD 100 FD 100

Q5. Following a ‘pen down’ command (PD), which of these code snippets would draw a square?

1. REPEAT 3 [FD 100 RT 120]
2. REPEAT 4 [FD 100 RT 90]
3. REPEAT 4 [FD 90 RT 100]
4. REPEAT 4 [FD 100 RT 45]

Q6. Why doesn’t this code for a triangle work? (Only one answer is correct.)

REPEAT 3 [FD 100 RT120]

1. A command is spelt incorrectly
2. A space is missing
3. There should be a 4 after REPEAT
4. The value after FD is incorrect

Q7. Draw the output of this code.

REPEAT 2 [FD 5 RT 90 FD 2 RT 90]



Q8. Match the code below to the algorithm for an octagon:

 Repeat 8 times

Draw a side 50 long

 Turn 45 degrees

1. REPEAT 8 [FD 45 LT 90]
2. REPEAT 45 [FD 8 RT 50]
3. REPEAT 8 [FD 50 RT 45]
4. [REPEAT 8 FD 50 RT 45]

Q9. What would be a sensible name for this procedure, which draws a triangle?

TO \_\_\_\_\_\_\_\_\_\_\_\_\_

REPEAT 3 [FD 100 RT 120]

END

Q10. This is a procedure for… (Only one answer is correct.)

TO \*\*\*\*\*\*\*\*\*\*\*

repeat 6 [fd 100 rt 60]

END

1. A square
2. A hexagon
3. A decagon
4. A rectangle

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