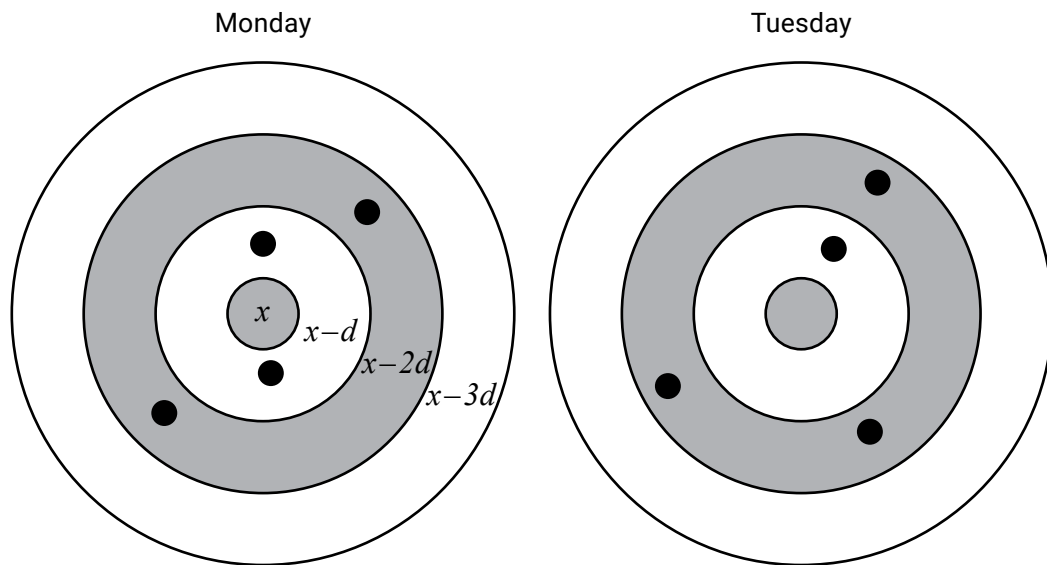


James shoots arrows daily at a target.

The dots show where James' arrows landed on Monday and Tuesday.



James allocates points depending on where his arrows land.

Each day he allocates points differently.

On Monday:

- the centre circle was worth x points.
- the difference between successive rings was d points.

On Tuesday:

- the centre circle was 3 points more than Monday
- the difference between successive rings was 1 point more than Monday.

His total scores for Monday and Tuesday were the same.

1 What is the value of d ?

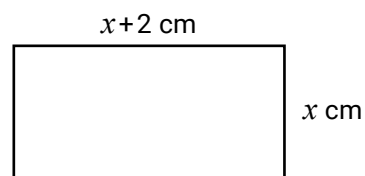
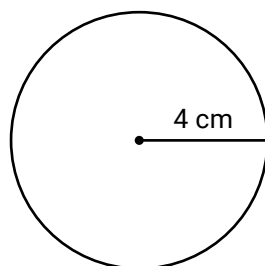
- A** 3
- B** 4
- C** 5
- D** 6

A survey of Year 8 students shows that 40% of students walk to school, one-sixth ride their bike and the remainder catch the bus.

2 What is the ratio of students who walk to those who ride to those who catch the bus, among this year level?

- A** 0.4 : 0.17 : 0.43
- B** 2 : 1 : 5
- C** 12 : 5 : 13
- D** 40 : 1 : 5

These shapes have equal perimeters.



3 What is the value of x ?

- A** $\pi - 1$
- B** $2\pi - 1$
- C** $2\pi - 4$
- D** $4\pi - 1$

Question No.	Key	Context
1	C	5
2	C	12 : 5 : 13
3	B	$2\pi - 1$