

Algebraic Expressions

1. a) Osman starts a coding club at their school.
Six students join the club at the first meeting.
At each of the next meetings, 2 more students join.
Complete this table of values to represent the pattern.
(Application) (Thinking) (Communication)

Meeting number	Number of members
1	
2	
3	
4	

- b) If m represents the meeting number, which of these expressions represents the relationship in part a).
Explain your choice.
(Application) (Thinking) (Communication)

$$4m - 2 \quad 2m + 6 \quad 2m + 4 \quad 4m + 2$$

Algebraic Expressions (cont'd)

2. a) Which of these expressions has the greatest value when $n = 7$?

What is the value?

(Knowledge and Understanding)

$$3n - 2$$

$$18 - n$$

$$n + 10$$

$$4n - 15$$

$$2n + 8$$

$$2n$$

b) Which of these expressions has the least value when $n = 7$?

What is the value?

(Knowledge and Understanding)