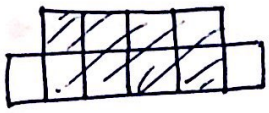
A093 Linear sequences

① a) $4n+2$

b) No, inverse operation showing $n \neq$ integer

② a)



b) 16

c) No, with a valid reason

③ a) $5n-2$

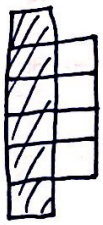
b) No, supported using substitution

④ $-4, -10$

⑤ a) $3n+1$

b) No, $n \neq$ integer

⑥ a)



b) 42

c) $n+2$

⑦ a) 18

b) No, one more square than the pattern no.

⑧ a) 36

b) 80

c) yes, odd^2 = odd

⑨ 18

⑩ a) -1

b) yes, numbers in the sequence are odd

⑪ a) $n = \frac{17}{3}$, not an integer

b) 8, 16 or 7, 11 or 5, 7