

REVIEW:

Sigma Notation, Arithmetic Series, Geometric Sequences and Series

1 a. 11 928 b. 65 535

2 a. $\sum_{n=1}^{71} (5n-12)$ b. $\sum_{n=1}^8 (3(4)^{n-1})$

3. $67 + 260 + 1029 + 4102 + 16\,391$

4. 5250

5. 435

6. $\sum_{n=1}^{15} \frac{2n-1}{4n-1}$

7. 30 000

8. $t_{13} = 19\,531\,250$

9 a. During week 6

b. \$221.85

10 a. 16 terms

b. $n = 19$

11 a. 31 kg

b. 1727 kg