# Mathematics 

## Number Sequences

## Practice Questions

Find the next two numbers in each of the following sequences...
a) $57,59,52,54,47,49$, $\qquad$ , _-_
b) $3,6,18,72$, $\qquad$ , _-_
c) $216,125,64$, $\qquad$ , -_-
d) $13,17,19,23,29$, $\qquad$ __e) $22,28,30,36,38$, $\qquad$ f) $13,18,23,23,33,28$, $\qquad$
g) $3,6,9,18,21,42,45$, $\qquad$
h) $180,90,100,50,60$, $\qquad$ i) $80,86,76,82,72$, $\qquad$ , _-
j) $2,12,6,36,18$, $\qquad$ , $\qquad$
k) $11,18,27,34,43$, $\qquad$ , $\qquad$
I) $150,144,140,134,130$, $\qquad$ , _-_
m) $4,8,9,18,19$, $\qquad$ , $\qquad$
n) $9,16,25,36$, $\qquad$ , $\qquad$
o) $33,50,37,54,41$, $\qquad$

# Mathematics 

## Number Sequences

## Answers

a) $57,59,52,54,47,49,42,44(+2,-7)$
b) $3,6,18,72, \underline{360}, \underline{2160}(x 2, x 3, x 4 \ldots)$
c) $216,125,64, \underline{27}, \boldsymbol{8}$ (Descending cube numbers)
d) $13,17,19,23,29,31,37$ (Ascending prime numbers)
e) $22,28,30,36,38,44,46(+6,+2)$
f) $13,18,23,23,33,28,43,33$ (Jump over $-+10,+5$ )
g) $3,6,9,18,21,42,45,90,93(x 2,+3)$
h) $180,90,100,50,60, \mathbf{3 0}, \mathbf{4 0}(\div 2,+10)$
i) $80,86,76,82,72, \underline{78}, \underline{68}(+6,-10)$
j) $2,12,6,36,18, \underline{108}, 54(x 6, \div 2)$
k) $11,18,27,34,43, \underline{50}, \mathbf{5 9}(+7,+9)$
I) $150,144,140,134,130, \underline{\mathbf{1 2 4}}, \underline{\mathbf{1 2 0}}(-6,-4)$
m) $4,8,9,18,19,38,39(x 2,+1)$
n) $9,16,25,36,49,64$ (Ascending square numbers)
o) $33,50,37,54,41, \underline{58}, \mathbf{4 5}(+17,-13)$

