

Prime Numbers: The Prime Number Code

Answers

Basic

- 1)
 - a) They are all multiples of 2
 - b) They are all multiples of 2 and 3
 - c) They are all multiples of 2
 - d) They are all multiples of 3
 - e) They are all multiples of 5

The numbers not coloured are all prime numbers.

Core

- 1)
 - a) They are all multiples of 2
 - b) They are all multiples of 2 and 3
 - c) They are all multiples of 2
 - d) They are all multiples of 3
 - e) They are all multiples of 5

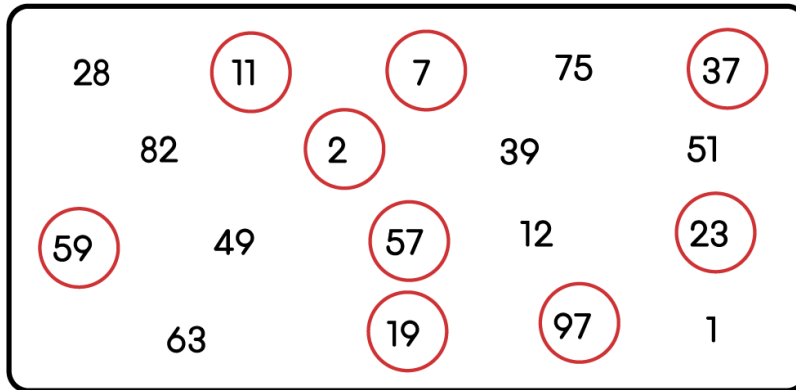
The numbers not coloured are all prime numbers.

- 2)

a) $2 \times 3 \times 3$	b) $3 \times 3 \times 3 \times 3$	c) $2 \times 5 \times 5$	d) $2 \times 2 \times 2 \times 3 \times 3$
e) 7×7	f) $2 \times 2 \times 5 \times 5$	g) $2 \times 2 \times 13$	h) $2 \times 2 \times 2 \times 3 \times 5 \times 5$

Advanced

1)



- 2) a) $2 \times 3 \times 3$ b) $3 \times 3 \times 3 \times 3$ c) $2 \times 5 \times 5$ d) $2 \times 2 \times 2 \times 3 \times 3$
e) 7×7 f) $2 \times 2 \times 5 \times 5$ g) $2 \times 2 \times 13$ h) $2 \times 2 \times 2 \times 3 \times 5 \times 5$

- 3) a) 2×3^2 b) 3^4 c) 2×5^2 d) $2^3 \times 3^2$
e) 7^2 f) $2^2 \times 5^2$ g) $2^2 \times 13$ h) $2^3 \times 3 \times 5^2$

- 4) a) 675 b) 1944 c) 845 d) 36,125
e) 1400 f) 401,375 g) 6400 h) 5,768,419

- 5) a) $3^3 \times 7^2$ b) $5^2 \times 13^2$ c) $2^5 \times 3 \times 5^2$ d) $5^3 \times 17^2$
e) $2^8 \times 3^4 \times 5$ f) $3^2 \times 5^2 \times 7^2$ g) $2 \times 3 \times 5 \times 7^3$ h) 13×17^2