

## Workout

Question 1:

- (a) 3      (b) 2      (c) 5      (d) 6  
(e) 10     (f) 9      (g) 12     (h) 13

Question 2:

- (a) 100      (b) 111      (c) 1000      (d) 1011  
(e) 1110     (f) 1111      (g) 10000     (h) 10011

Question 3:

- (a) 21      (b) 26      (c) 29      (d) 35  
(e) 38      (f) 56      (g) 47      (h) 61

Question 4:

- (a) 11000     (b) 11110     (c) 100101     (d) 101101  
(e) 110010     (f) 110001     (g) 111011     (h) 111111

Question 5:

- (a) 69      (b) 104      (c) 93      (d) 166

Question 6:

- (a) 10000010     (b) 10100000     (h) 10101111     (d) 11001000

## Apply

Question 1

- (a) When writing a number in binary form, it can only have the digits 1 or 0.  
(b) 11000

Question 2

- (a) 100001 – which is palindromic  
(b) 1100011 – which is palindromic

Question 3 – These answers will depend on the current date.

Today's date: 2nd April 2019

- (a) 2/4/19  
(b) 10/100/10011  
(c) II/IV/XIX