8 (a) Write 300 as a product of its prime factors.
Show your working clearly.

.....

(2)

1 Write 2250 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 1 is 3 marks)

1 Write 1400 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 1 is 3 marks)

2 Write 880 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 2 is 3 marks)

1 (b) Write 800 as a product of its prime factors.
Show your working clearly.

.....

(2)

5 (a) Write 720 as a product of its prime factors.
Show your working clearly.

.....

(3)

(b) Find the smallest whole number that 720 can be multiplied by to give a square number.

.....

(1)

(Total for Question 5 is 4 marks)

1 Write 600 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 1 is 3 marks)

2 Write 1200 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 2 is 3 marks)

7 Write 3.6×10^3 as a product of powers of its prime factors.
Show your working clearly.

.....

(Total for Question 7 is 3 marks)

10 $A = 2^n \times 3 \times 5^m$

Write $8A$ as a product of powers of its prime factors.

.....

(Total for Question 10 is 2 marks)

9 $N = 480 \times 10^9$

(a) Write N as a number in standard form.

.....

(1)

(b) Write N as a product of powers of its prime factors.
Show your working clearly.

.....

(3)

(c) Find the largest factor of N that is an odd number.

.....

(1)

(Total for Question 9 is 5 marks)