Q1 Using any or all of the figures 1, 2, 3, 7 write down

1. The smallest prime number
2. A prime number greater than 20
3. Two prime numbers whose sum is 20
4. A prime number between 10 and 20
5. A number that is not prime.

Q2 Find three sets of three prime numbers which add up to the following numbers:

10 29 41

Q3 List all the factors for each of the following numbers

a) 3 b) 15 c) 20 d) 33

Q4 Which of the following: 1, 2, 3, 4,7, 8, 9, 12, 15, 23, 24, 36 are multiples of three?

Q5 From the numbers 1, 3, 6, 9 and 12, write down

1. a multiple of 4
2. a prime number
3. two square numbers
4. three factors of 27

Q6 For each set of numbers find the HCF

a) 40 and 60 b) 32 and 64 c) 10, 24, 40, 60

Q7 For each set of numbers find the LCM

a) 15, 30, 45 b) 32, 48, 64 c) 10, 40, 60

**Exam style questions**

Q8 Write down three multiplication sums each of which has an answer equal to 30.

DO NOT use any number more than once.

(3 marks)

Q9 Express 540 as a product of prime factors.

(2 marks)

Q10 11, 12, 13, 14, 15, 16 ,17, 18, 19, 20, 21 ,22, 23

1. From the list above, write down a number which can be divided by exactly 5
2. From the list above, write down the number which can be divided exactly by 5 and also by 2.

( 3 marks)

Q11 From the number 1 to 40 (inclusive), write down

1. the square of 6 b) all multiples of 8
2. the prime factors of 70 d) the value of 32
3. the value of √ 25

( 5 marks)

Q1 a) 2

1. 23
2. 17 & 3 or 13 & 7
3. 13 or 17 (½ mark each)
4. 1 (1 mark)

Q2 2 + 3 + 5 = 10 5 + 11 + 13 = 29 11 + 13 + 17 = 41 (3 marks)

Q3 a) 1 & 3

1. 1, 3, 5, 15
2. 1, 2, 4, 5, 10, 20
3. 1, 3, 11, 33 (1 mark each, 4 in total)

Q4 3, 9, 12, 15, 24, 36 (½ mark each, 3 in total)

Q5 a) 12

1. 3
2. 1 & 9
3. 1, 3, 9 (1/2 mark each, 2 in total)

Q6 a) 20

1. 32
2. 2 (1 mark each, 3 in total)

Q7 a) 90

1. 192
2. 120 (1 mark each, 3 in total)

# Exam style Questions

Q8 1 x 30 3 x 10 2 x 15 6 x 5 (1 mark each, 3 in total)

Q9 22 x 33 x 5 (2 marks)

Q10 a) 15 or 20

1. 20 (3 marks)

Q11 a) 36

1. 8, 16, 24, 32, 40
2. 2, 5, 7
3. 9
4. 5 (1 mark each , 5 in total)  **Total out of / 34**