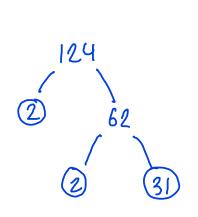
1 Write 124 as a product of its prime factors.



31 is prime.

$$[24 = 2 \times 2 \times 31]$$
  
=  $2^2 \times 31$  2

22x31

(Total for Question 1 is 2 marks)

2 Write down two factors of 35



(Total for Question 2 is 1 mark)

3 Write down a 3 digit number that is a multiple of 5

Any number ending in O or 5 is a multiple of 5.



(Total for Question 3 is 1 mark)

4 Write down two factors of 12

1 x 12

2 x 6

 $3 \times 4$ 

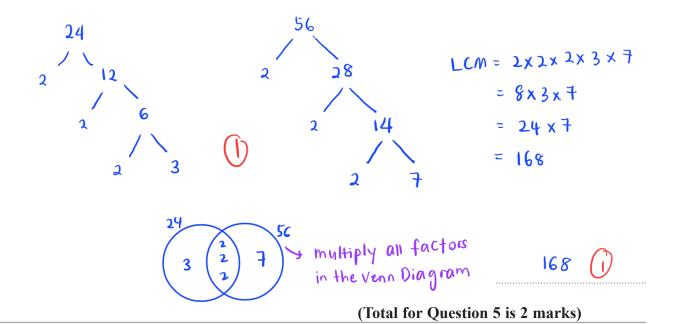
3

1



(Total for Question 4 is 1 mark)

5 Work out the lowest common multiple (LCM) of 24 and 56



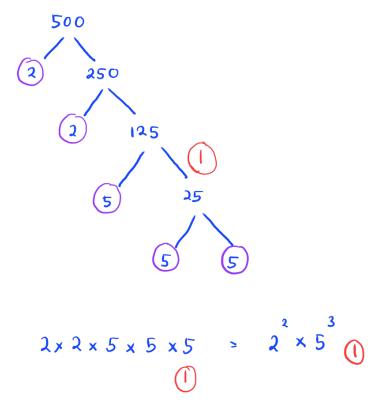
**6** Write down a factor of 60 that is between 8 and 14

List down factor of 60 from Smallest to largest

choose factor (Total for Question 6 is 1 mark)

that is between 8 and 14

7 Write 500 as a product of powers of its prime factors.



2 x 5

(Total for Question 7 is 3 marks)

Here is a list of numbers.

5 11 18 22 29

From the list, write down a multiple of 3

Find which of the numbers are divisible by 3:

$$5 \neq 3$$
 $18 \div 3 = 6$ 
 $29 \neq 3$ 
 $1 \neq 3$ 

(To

(Total for Question 8 is 1 mark)

**9** Write down **three** different factors of 20

factor = a number that can divide into it

all 
$$\int 1 \times 20 = 20$$

factors  $\int 5 \times 4 = 20$ 
 $\int 1 \times 2 = 20$ 
 $\int 1 \times 2 = 20$ 

(Total for Question 9 is 2 marks)

10 Here is a list of numbers.

20

40

60

80

100

One of these numbers is a multiple of 25

Which number?

(T-

100

(Total for Question 10 is 1 mark)

11 Write 60 as a product of its prime factors.

$$\begin{array}{c}
1 \times 60 \\
\hline
2 \times 30 \\
\hline
3 \times 20
\end{array}$$

$$\begin{array}{c}
3 \times 20 \\
4 \times 15
\end{array}$$

$$\begin{array}{c}
3 \times 2 \times 2 \times 2 \times 5 \\
\hline
6 \times 10
\end{array}$$
answers are the same either choice

2x2x3x5



(Total for Question 11 is 2 marks)

**12** A and B are numbers such that

$$A = 2^2 \times 3^4 \times 7$$
$$B = 3^2 \times 7^2$$

(a) Find the highest common factor (HCF) of A and B.

List all the factors of A and B:

$$A : 2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 7$$

Circle all common factors

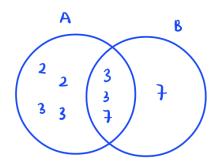
of A and B.

multiply all the common factors to get HCF:

$$3 \times 3 \times 7 = 63$$

(1)

(b) Find the lowest common multiple (LCM) of A and B.



LCM = 
$$2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 3 \times 7 \times 7$$
  
=  $2^{2} \times 3^{4} \times 7^{2}$  (1)  
= 15 876 (1)

15 876

**(2)** 

(Total for Question 12 is 3 marks)