

3. Here are some factors of 48.

1    2    3    4    6    8    \_\_\_\_\_    \_\_\_\_\_    24    48.

(a) Write the missing factors of 48.

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48  
=> Missing factors : 12 and 16

Answer:.....12 and 16.....

(b) Write down a factor of 48 which is also a cube number.

From the above factors, 8 is the cube number.

Answer:.....8.....

(c) Write down a pair of factors of 48 which are the co-prime numbers.  
(co-prime numbers are the numbers which have HCF one.)

(3, 8) or (3, 16)

Answer: (3, 8) or (3, 16).....

(d) Write down the sum of all factors of 48.

sum of all factors =  $1 + 2 + 3 + 4 + 6 + 8 + 12 + 16 + 24 + 48$   
= 124

Answer:.....124.....

A perfect number is a special type of number. If you add up all of its factors and halve the total, the result is the original number.

(e) Find a perfect number which is less than 12.

Factors of 6: 1, 2, 3, 6  
Sum of factors =  $1 + 2 + 3 + 6 = 12$   
Sum  $\div 2 = 12 \div 2 = 6$

=> 6 is perfect number.

Answer:.....6.....

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**Terry C. Jones**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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