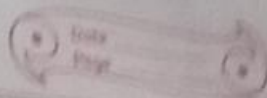


# Exercise 2A



a) 48 - 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

b) 63 - 1, 3, 7, 9, 21, 63

c) 84 - 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

d) 108 - 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 108

e) 32 - 1, 2, 4, 8, 16, ~~32~~ ~~32~~ 32

f) 169 - 1, 13, 169

g) 343 - 1, 7, 49, 343

h) 150 - 1, 2, 3, 5, 6, 10, 15, 20, 150, 50, 75  
0

5) (a) ~~9~~ 9, 18, 27, 36, 45 and 54

b) 112

c) 75

d) 144

e) 66, 77, 88, 99, 110  
121, 132, 143, 154, 165  
176

f) 135, 150, 165, 180,  
195, 210

## Exercise 8 A

6 Write down the prime numbers  
a. 50 to 65

Ans) 53, 59, 61

b. 80 to 100

Ans) 83, 89, 97

c. 110 to 125

Ans) 113

7 Write down the composite numbers

a) 70 to 80

Ans) ~~70~~, 72, 74, 75, 76, 77, 78, ~~80~~

b) 100 to 110

Ans) ~~100~~, 102, 104, 105, 106 and 108

c) 40 to 50

Ans) ~~40~~, 42, 44, 45, 46, 48, 49

8. Is 1 a prime number?

Ans) No

9. What is smallest composite number?

Ans) 4

10. Write the prime number which is even?

Ans) 2

11. Find the prime factors of the following numbers.

Ans) ~~3~~ 
$$\begin{array}{r} 3 \overline{) 27} \\ \underline{3 \ 9} \\ 3 \ 3 \\ \underline{3 \ 3} \\ 1 \end{array}$$

b) 
$$\begin{array}{r} 5 \overline{) 35} \\ \underline{7 \ 7} \\ 7 \ 7 \\ \underline{7 \ 7} \\ 1 \end{array}$$

So the prime factor of 27 is 3

So the prime factors are 5 and 7

$$\begin{array}{r} 3 \overline{)63} \\ \underline{3} \phantom{0} \\ 3 \phantom{0} \\ \underline{3} \phantom{0} \\ 0 \phantom{0} \\ 7 \overline{)21} \\ \underline{7} \phantom{0} \\ 14 \\ \underline{7} \\ 7 \\ \underline{7} \\ 0 \end{array}$$

So the prime factor is 3 and 7

$$\begin{array}{r} 7 \overline{)91} \\ \underline{7} \phantom{0} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

So the prime factor is

7 and 13

$$\begin{array}{r} 2 \overline{)100} \\ \underline{2} \phantom{00} \\ 2 \phantom{00} \\ \underline{2} \phantom{00} \\ 0 \phantom{00} \\ 5 \overline{)25} \\ \underline{5} \phantom{0} \\ 20 \\ \underline{20} \\ 5 \\ \underline{5} \\ 0 \end{array}$$

So the prime factor is 2 and 5

$$\begin{array}{r} 7 \overline{)77} \\ \underline{7} \phantom{0} \\ 0 \phantom{0} \\ 11 \overline{)11} \\ \underline{11} \\ 0 \end{array}$$

So the prime factor is 7 and 11

$$\begin{array}{r} 2 \overline{)54} \\ \underline{2} \phantom{0} \\ 3 \overline{)27} \\ \underline{3} \phantom{0} \\ 3 \overline{)9} \\ \underline{3} \phantom{0} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

The prime factor is 2 and 3

$$\begin{array}{r} 11 \overline{)143} \\ \underline{11} \phantom{0} \\ 33 \\ \underline{33} \\ 0 \end{array}$$

The prime factor is

11 and 13