5 Factors and Multiples

Q1. If 16 × 3 =48, then which of the following statements is true?

a. 16 is a factor of 3.

b. 3 is a factor of 16.

c. 48 is a factor of 16 and 3.

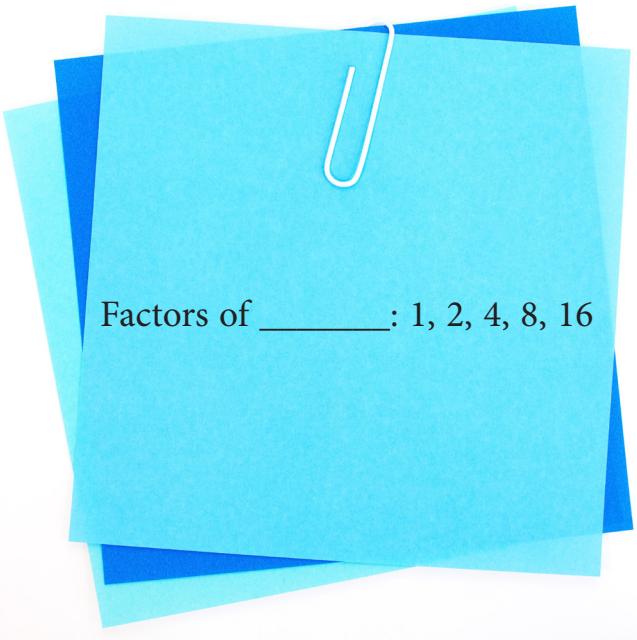
d. 16 and 3 are factors of 48.

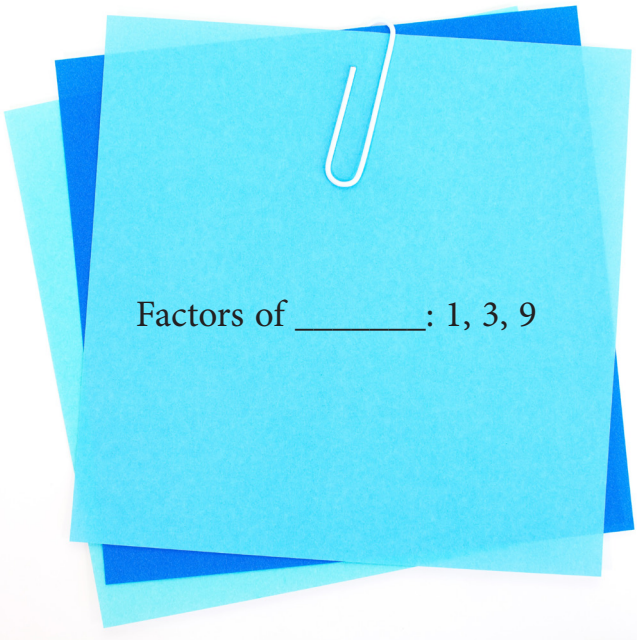
Q2. Find the HCF of:

12, 32

Answer: HCF of (12, 32) = _____

Q3. Shyam had noted down the factors of 27 and the factors of 32 on two cards. But now he did not write the heading completely. Fill in the blanks and help Shyam complete the heading.





Q4. What will be the HCF of "Any number greater than 0" and "1"? Find and tick the correct answer.

Answer: HCF (1, any number greater than 0)= _____

a. 1

b. 0

c. Number itself

Q5. List the common factors and find the HCF:

Number	Factors
44	_____
28	_____
Common Factors:	_____
HCF of (44,28):	_____

Q6. Complete the table by writing Yes/No:

Division Expression	Quotient	Remainder	Is a factor?
18 ÷ 5	3	3	5 is a factor of 18? _____
26 ÷ 2	13	0	2 is a factor of 26? _____
56 ÷ 8	7	0	8 is a factor of 56? _____

Q7. In which of the following pairs the smaller number is the HCF of the two numbers? Draw appropriate smiley for each pair.

Yes: ☺

No: ☹

a. 7, 49 : _____

b. 3, 24 : _____

c. 3, 34 : _____

d. 6, 32 : _____

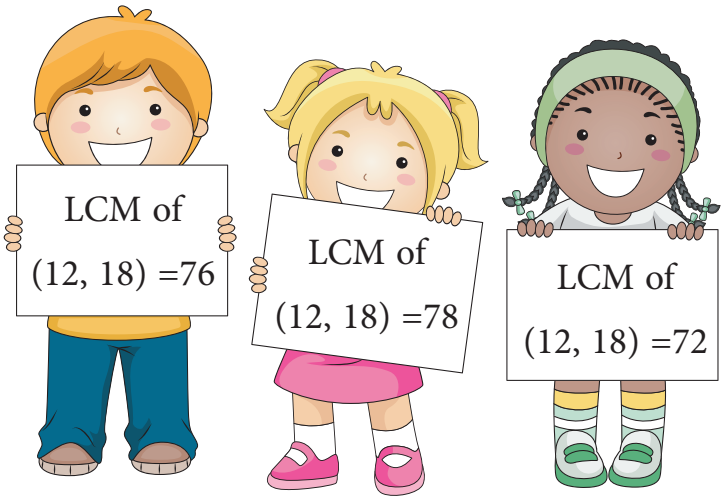
Q8. State true or false:

a. 0 is a factor of every number. _____

b. The first multiple of every number is 1. _____

c. Every number is a multiple of 1. _____

Q9. In a class test the students were asked to find the LCM of 12 and 18. Three children came up with three different answers. Tick the notebook which has the correct answer:



Q10. Fill in the blanks with the correct option:

a. Every multiple of an even number is always _____ (even/odd)

b. The product of any two numbers is also their _____. (factor/multiple)

c. All even numbers are multiples of _____. (two/three)

d. All odd multiples of 7 are _____. (even/odd)

Q11. The LCM of 6 and 7 is 42. Find a common multiple of 6 and 7 greater than 42.

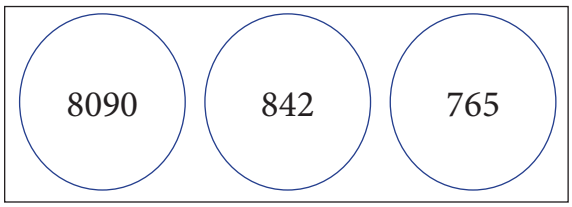
Answer: _____

Q12. Colour the numbers according to the following key:

Divisible by 2 only: Red

Divisible by 5 only: Blue

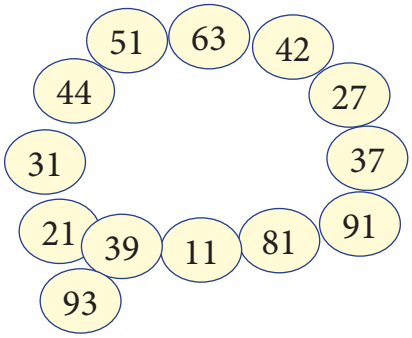
Divisible by both 2 and 5: Yellow



Are the yellow coloured numbers divisible by 10 also?

_____

Q13. Preeti has to prepare a necklace of only composite numbers. She has made the following necklace. Cross out the beads that should not be there in the necklace.



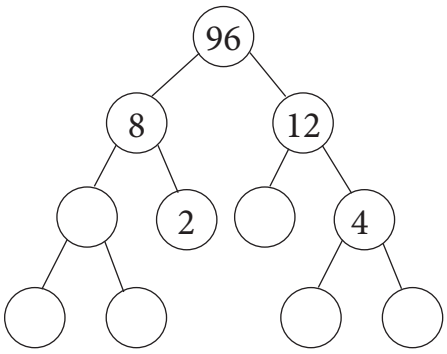
Q14. Tick the correct prime factorization of 32:

a. $32 = 2 \times 2 \times 8$

b. $32 = 4 \times 2 \times 4$

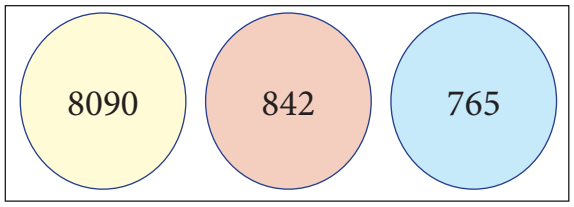
c. $32 = 2 \times 2 \times 2 \times 2 \times 2$

Q15. Complete the following factor tree:

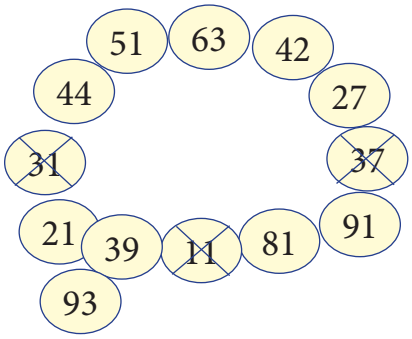


ANSWERS

1. (d)
2. 4
3. Factors of 32: 1,2,4,8,16; Factors of 27: 1, 3, 9
4. (a)
5. Factors of 44: 1, 2, 4, 11, 22, 44
   Factors of 28: 1, 2, 4, 7, 14, 28
   Common factors: 1, 2, 4
   HCF:4
6. a. No
   b. Yes
   c. Yes
7. a. ☺
   b. ☺
   c. ☹
   d. ☹
8. a. False
   b. False
   c. True
9. LCM of (12, 18) = 72
10. a. Even
    b. Multiple
    c. Two
    d. odd
11. 84

12. 

Yes

13. 

14. (c)

15.