Common Multiple and Common Factor

Multiple and Common Multiple

1. (a) Within 100, the multiples of 8 are 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, \_\_\_\_\_ and \_\_\_\_\_.
(b) Within 100, the multiples of 6 are 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90 and \_\_\_\_\_.
(c) Within 100, the common multiples of 6 and 8 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
(d) The least common multiple (L.C.M.) of 6 and 8 is \_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Answer the question with the help of the figure below.

8

8

8

8

8

24

16

32

40

Write down the first five multiples of 8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Given that 11 ⨉ 5 = 55, which of the following is/are correct?
☐ 5 times 11 is 55
☐ 11 times 5 is 55
☐ 55 is a multiple of 5
☐ 55 is a multiple of 11
2. Which of the following number is a multiple of 24?
A. 3
B. 8
C. 12
D. 48
3. 12 is a multiple of
A. 5.
B. 6.
C. 24.
D. 120.
4. (a) Within 40, all the common multiples of 4 and 6 are
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
(b) The least common multiple (L.C.M.) of 4 and 6 is \_\_\_\_\_\_\_\_\_\_.
5. Given that 57 ⨉ 3 = 171.
The least common multiple (L.C.M.) of 57 and 171 is \_\_\_\_\_\_\_\_\_\_\_\_.
6. Which of the following sentences is correct?
A. The least common multiple (L.C.M.) of 4 and 6 is 2.
B. 24 is the least common multiple (L.C.M.) of 4 and 6.
C. 24 is a common multiple of 4 and 6.
7. Peter says that the multiples of 4 are 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 ….
And the multiples of 6 are 6, 12, 18, 24, 30, 36, 42, 48, 54, 60 ….
So, the highest common multiple of 4 and 6 is 36. Do you agree? Why?
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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Factor and Common Factor

1. Given that 13 ⨉ 5 = 65, which of the following is/are correct?
☐ 5 is a factor of 65
☐ 13 is a factor of 65
☐ 5 is a factor of 13
2. Given that 60 ÷ 15 = 4, which of the following is/are correct?
☐ 15 is a factor of 60
☐ 4 is a factor of 60
☐ 4 is a factor of 15
3. Given that the factors of 13 are 1 and 13. The factors of 19 are 1 and 19.
So, the H.C.F. (highest common factor) of 13 and 19 is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Peter puts every 6 of his candies into a bag, the result is like this:

(a) How many candies are there? \_\_\_\_\_\_\_\_\_\_\_\_\_
(b) Is 6 a factor of 54? Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
(c) Is 9 a factor of 54? Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
(d) List all the factors of 54. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. All the factors of 72 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72.
All the factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 48.
(a) The common factors of 48 and 72 are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
(b) The highest common factor (H.C.F.) of 48 and 72 is \_\_\_\_\_\_\_\_\_\_\_\_.
2. Which of the following numbers is a factor of 12?
A. 3
B. 5
C. 24
D. 120
3. (a) List all the factors of 16.
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
(b) List all the factors of 18.
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
(c) List all the common factors of 16 and 18.
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Which of the following numbers is a common factor of 9 and 24?
A. 2
B. 3
C. 8
D. 72
5. Given that 48 ⨉ 2 = 96.
The highest common factor (H.C.F.) of 48 and 96 is \_\_\_\_\_\_\_\_\_\_\_\_.
6. Which of the following numbers is a common factor of 7 and 11?
A. 1
B. 7
C. 11
D. 77
7. Given that 72 ÷ 6 = 12, which of the following is/are correct?
☐ 72 is a multiple of 6
☐ 6 is a factor of 72
☐ 12 is a factor of 72
☐ 72 is a multiple of 12
8. Which of the following numbers is both a multiple of 8 and a factor of 8?
A. 1
B. 2
C. 8
D. 16