

Math 6 - Unit 1: Number System Fluency

Factors, Multiples, GCF and LCM Review

Answer Key

Name: _____

Class Period: 1 2 3 4 Date: _____

Use the divisibility rules to determine if 2, 3, 4, 5, 6, 9 or 10 are factors of the given numbers. Circle each of the numbers that are factors in the problems below.

1) 144:

- 2 Y N Why? 144 is an even number
- 3 Y N Why? When you add $1 + 4 + 4$ you get 9 and 9 is divisible by 3 so 144 is too
- 4 Y N Why? The last two digits form 44 and 44 is divisible by 4 so 144 is too
- 5 Y N Why? 144 does not end in a zero or a 5
- 6 Y N Why? Since 2 and 3 are factors of 144, 6 is a factor of 144
- 9 Y N Why? When you add $1 + 4 + 4$ you get 9 and 9 is divisible by 3 so 144 is too
- 10 Y N Why? 144 does not end in a zero

2) 27:	2	<input checked="" type="checkbox"/>	4	5	6	<input checked="" type="checkbox"/>	10
4) 36:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
6) 16:	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	5	6	9	10
8) 28:	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	5	6	9	10
10) 57:	2	<input checked="" type="checkbox"/>	4	5	6	9	10
12) 102:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	5	<input checked="" type="checkbox"/>	9	10

3) 4518:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
5) 93:	2	<input checked="" type="checkbox"/>	4	5	6	9	10
7) 144:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10
9) 256:	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	5	6	9	10
11) 75:	2	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	6	9	10
13) 450:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Use a factor rainbow or a table of factors to help you list **ALL** the factors for the following numbers:

14) 140

1, 2, 4, 5, 7, 10, 14, 20, 28, 35, 70, 140

15) 164

1, 2, 4, 41, 82, 164

16) 39

1, 3, 13, 39

17) 74

1, 2, 37, 74

18) 35

1, 5, 7, 35

19) 14

1, 2, 7, 14

Find the first 5 multiples of the following numbers.

20) 11: 11, 22, 33, 44, 55

21) 10: 10, 20, 30, 40, 50

22) 6: 6, 12, 18, 24, 30

23) 100: 100, 200, 300, 400, 500

24) 3: 3, 6, 9, 12, 15

25) 8: 8, 16, 24, 32, 40

Use the sled method or the list method to find the GCF (Greatest Common Factor).

26) 15 and 12

GCF: 3

27) 8 and 15

GCF: 1

28) 40 and 60

GCF: 20

29) 12 and 4

GCF: 4

Use the sled method or the list method to find the LCM (Least Common Multiple).

30) 6 and 12

LCM: 12

31) 8 and 5

LCM: 40

32) 4 and 6

LCM: 12

33) 2 and 4

LCM: 4

Use the sled method or the list method to find the GCF and LCM.

34) 3 and 2

GCF: 1 LCM: 6

35) 5 and 4

GCF: 1 LCM: 20

36) 4 and 10

GCF: 2 LCM: 20

37) 12 and 6

GCF: 6 LCM: 12