



Year 5 Worksheet 8 - Factoring (Prime number)

Question 1: List out all the factors and find the greatest common factor (GCF) as shown.

1	15 and 25 15 = (1 x 15), (3 x 5). Factor: 1, 3, 5, 15 25 = (1 x 25), (5 x 5). Factor: 1, 5, 25 GCF = 5
2	24 and 36
3	45 and 75
4	72 and 90
5	28 and 42
6	56 and 64



7	81 and 99
8	64 and 72
9	88 and 110
10	50 and 70



Question 2: Find the prime numbers.

11	24	15	20	73
12	21	13	69	29
36	47	45	33	49
89	81	96	37	27
65	59	78	35	97
71	80	83	63	67



Question 3: Find the lowest common multiple (LCM) of 2 numbers from 2 to 30?

1	What is the LCM of 2 and 3? Answer: Multiple of 2: 2 4 6 Multiple of 3: 3 6 LCM of 2 and 3 is 6.
2	Find the LCM of 4 and 5.
3	Calculate the LCM of 6 and 7.
4	Determine the LCM of 8 and 9.
5	What is the LCM of 10 and 11?
6	Find the LCM of 12 and 13.



7	Calculate the LCM of 14 and 15.
8	Determine the LCM of 16 and 17.
9	What is the LCM of 18 and 19?
10	Find the LCM of 20 and 30.



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Answer Key

Question 1:

1	$15 = (1 \times 15), (3 \times 5)$. Factor: 1, 3, 5, 15 $25 = (1 \times 25), (5 \times 5)$. Factor: 1, 5, 25 GCF = 5
2	Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24 Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36 GCM of 24 and 36: 12
3	Factors of 45: 1, 3, 5, 9, 15, 45 Factors of 75: 1, 3, 5, 15, 25, 75 GCM of 45 and 75: 15
4	Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72 Factors of 90: 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, 90 GCM of 72 and 90: 18
5	Factors of 28: 1, 2, 4, 7, 14, 28 Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42 GCM of 28 and 42: 14
6	Factors of 56: 1, 2, 4, 7, 8, 14, 28, 56 Factors of 64: 1, 2, 4, 8, 16, 32, 64 GCM of 56 and 64: 8
7	Factors of 81: 1, 3, 9, 27, 81 Factors of 99: 1, 3, 9, 11, 33, 99 GCM of 81 and 99: 9
8	Factors of 64: 1, 2, 4, 8, 16, 32, 64 Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72 GCM of 64 and 72: 8
9	Factors of 88: 1, 2, 4, 8, 11, 22, 44, 88 Factors of 110: 1, 2, 5, 10, 11, 22, 55, 110 GCM of 88 and 110: 22
10	Factors of 50: 1, 2, 5, 10, 25, 50 Factors of 70: 1, 2, 5, 7, 10, 14, 35, 70 GCM of 50 and 70: 10



Question 2:

11				73
		13		29
	47			
89			37	
	59			97
71		83		67

Question 3:

1	What is the LCM of 2 and 3? Answer: LCM of 2 and 3 is 6.
2	Find the LCM of 4 and 5. Answer: LCM of 4 and 5 is 20.
3	Calculate the LCM of 6 and 7. Answer: LCM of 6 and 7 is 42.
4	Determine the LCM of 8 and 9.



	Answer: LCM of 8 and 9 is 72.
5	What is the LCM of 10 and 11? Answer: LCM of 10 and 11 is 110.
6	Find the LCM of 12 and 13. Answer: LCM of 12 and 13 is 156.
7	Calculate the LCM of 14 and 15. Answer: LCM of 14 and 15 is 210.
8	Determine the LCM of 16 and 17. Answer: LCM of 16 and 17 is 272.
9	What is the LCM of 18 and 19? Answer: LCM of 18 and 19 is 342.
10	Find the LCM of 20 and 30. Answer: LCM of 20 and 30 is 60.