

Name:

Date:

FACTOR THE GCF Worksheet - Problems

No.	Problem	Answer Key
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1. Find GCF of the following: $15x, 25$
2. Find GCF of the following: $3a^2, 3a, 60$
3. Find GCF of the following: $8c^2d^7e, 6c^3d^4$
4. Factor by removing GCF: $5x + 20$
5. Factor by removing GCF: $10x^3 + 6x$
6. Factor by removing GCF: $3x^5 + 12x^2$
7. Factor by removing GCF: $21x^2y - 28xy^2$
8. Factor by removing GCF: $8a^3 - 8a^2 - 48a$
9. Factor by removing GCF: $3a^2 - 21a + 30$
10. Factor by removing GCF: $16x^5 - 20x^4 + 8x^3$
11. Factor by removing GCF:
 $8a^3b^2 + 16a^2b^3 + 20a^3b^3$
12. Factor by removing GCF:
 $16a^5b^4 - 24a^2b^5 - 8a^3b^3$
13. Factor by removing GCF:
 $10x^4y^2 + 20x^3y^3 - 30x^2y^4$

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FACTOR THE GCF Worksheet - Answers

No.	Problem	Answer Key
1.	Find GCF of the following: $15x, 25$	5
2.	Find GCF of the following: $3a^2, 3a, 60$	3
3.	Find GCF of the following: $8c^2d^7e, 6c^3d^4$	$2c^2d^4$
4.	Factor by removing GCF: $5x + 20$	$5(x + 4)$
5.	Factor by removing GCF: $10x^3 + 6x$	$2x(5x^2 + 3)$
6.	Factor by removing GCF: $3x^5 + 12x^2$	$3x^2(x^3 + 4)$
7.	Factor by removing GCF: $21x^2y - 28xy^2$	$7xy(3x - 4y)$
8.	Factor by removing GCF: $8a^3 - 8a^2 - 48a$	$8a(a^2 - a - 6)$
9.	Factor by removing GCF: $3a^2 - 21a + 30$	$3(a^2 - 7a + 10)$
10.	Factor by removing GCF: $16x^5 - 20x^4 + 8x^3$	$4x^3(4x^2 - 5x + 2)$
11.	Factor by removing GCF: $8a^3b^2 + 16a^2b^3 + 20a^3b^3$	$4a^2b^2(2a + 4b + 5ab)$
12.	Factor by removing GCF: $16a^5b^4 - 24a^2b^5 - 8a^3b^3$	$8a^2b^3(2a^3b - 3b^2 - a)$
13.	Factor by removing GCF: $10x^4y^2 + 20x^3y^3 - 30x^2y^4$	$10x^2y^2(x^2 + 2xy - 3y^2)$