Math 10 Polynomials & Factoring Assignment Total: /28 = %  
Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Use algebra tiles to multiply the following. /2

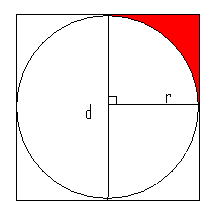
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1. Use the distributive property to expand and simplify the following. /8 *2 marks each*

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1. A circle is inset into a square with a side length of , as shown. Write an expression to represent the area of the circle. Then multiply and simplify. /2

6x +4



1. What is the greatest common factor for each set of terms /2

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

D. Draw in the factors as tiles for the following algebra tile models and label with expression above. /2

|  |  |
| --- | --- |
| 9. | 10. |

1. Completely Factor the Following. **Remove GCF first!** /10

|  |  |
| --- | --- |
| 11. | 12. |
| 13. | 14. |
| 15. | 16. = |
| 17. | 18. |
| 19. | 20. |
| 21. For what integer value**s** of k can the following trinomial be factored? /2 | |