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## California Standards Prep for 11.0

## Practice <br> 8-1 Factors and Greatest Common Factors

Write the prime factorization of each number.

1. 18
2. 120
3. 56
4. 390
5. 144
6. 153

Find the GCF of each pair of numbers.
7. 16 and 20 $\qquad$ 8. 9 and 36
9. 15 and 28 $\qquad$ 10. 35 and 42
11. 33 and 66 $\qquad$
13. 78 and 30 $\qquad$ 14. 84 and 42
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12. 100 and 120 $\qquad$
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Find the GCF of each pair of monomials.
15. $15 x^{4}$ and $35 x^{2}$ $\qquad$
17. $-6 t^{3}$ and $9 t$ $\qquad$ 18. $27 y^{3} z$ and $45 x^{2} y$ $\qquad$
20. $-8 d^{3}$ and $14 d^{4}$
22. $10 g h^{2}$ and $5 h$
16. $12 p^{2}$ and $30 q^{5}$ $\qquad$
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23. Kirstin is decorating her bedroom wall with photographs.

She has 36 photographs of family and 28 photographs of friends. She wants to arrange the photographs in rows so that each row has the same number of photographs, and photographs of family and photographs of friends do not appear in the same row.
a. How many rows will there be if Kirstin puts the greatest possible number of photographs in each row?
b. How many photographs will be in each row?


