**9-1****Skills Practice****Factors and Greatest Common Factors**

\*All work on Looseleaf

Find the factors of each number. Then classify each number as *prime* or *composite*.

1. 10

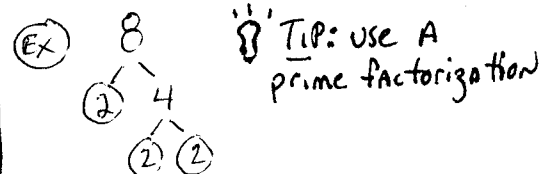
2. 31

3. 16

4. 52

5. 38

6. 105



$2 \cdot 2 \cdot 2 \Rightarrow 2 \cdot 4$

1 · 8 ADD this

FACTORS: 1, 2, 4, 8 ← Ans.

Tip: Use A prime factorization

Find the prime factorization of each integer.

7. -16

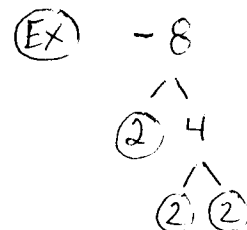
8. 20

9. 24

10. 36

11. 112

12. -72



-1 · 2 · 2 · 2 ← Ans. THIS is a PRIME FACTORIZATION.

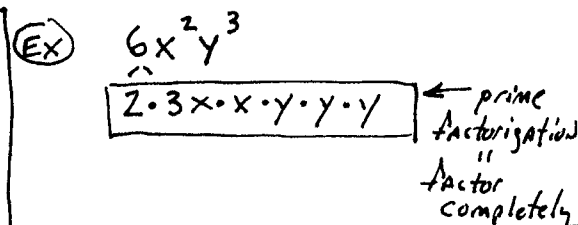
Factor each monomial completely.

13.  $10a^4$

14.  $-27x^3y^2$

15.  $28pq^2$

16.  $44m^2ns^3$



Find the GCF of each set of monomials.

17. 12, 18

18. 20, 27

19. 30, 48

20. 24, 81

21. 20, 36, 64

22. 42, 60, 78

23.  $16c$ ,  $21b^2d$

24.  $18a$ ,  $48a^4$

25.  $32xyz$ ,  $48xy^4$

26.  $12m^3n^2$ ,  $44mn^3$

EX  $14x^3y^5z$ ,  $21x^4y^4$

$7x^3y^4$  ← GCF

Tip: Use A prime factorization, if needed, to find the GCF.

EXAMPLES