

Excellence

1. A student says the highest common factor of 18 and 30 is 6. Are they correct? Explain.
2. A student says 21 is prime because it is odd. Are they correct? Explain.
3. Write the first 4 common factors of 24 and 36.
4. Find the highest common factor of 42 and 56.
5. Find the highest common factor of 48 and 60.
6. Find the highest common factor of 54 and 72.
7. Which numbers are prime: 17, 21, 23, 27, 31?
8. Fill in the blank: the highest common factor of a and 18 is 6 when $a = \square$.
9. Fill in both blanks: two common factors of 32 and 40 are \square and \square .

10. A teacher has 24 blue pens and 36 black pens. She wants identical packs with no pens left over. What is the greatest number of packs she can make?

11. A choir has 28 altos and 42 sopranos. They stand in equal rows with the same number of each voice in every row. What is the greatest number of rows?

12. Complete: if the highest common factor of 30 and n is 10, then one possible value of n is _____.