

# ARCHIMEDEAN MIDDLE CONSERVATORY

Date: Oct 22, 2024

Grade 6

Graded worksheet

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1. Find the greatest common factor (GCF) of the numbers
  - a. 13, 52
  - b. 32, 36
  - c. 12, 16, 20
2. Find the least common multiple (LCM) of the numbers
  - a. 8, 12
  - b. 9, 24
  - c. 18 and 21
3. What is the prime factorization of
  - a. 88
  - b. 75
  - c. 56.
4. There are 200 members of a school band who need to be arranged in rows for a performance. There must be at least 6 members in each row and no more than 30 members in each row. What are the possible number of rows and band members in each row?
5. You have a coding lesson every fourth day, a swimming lesson every third day, and a tutoring lesson every fifth day. Today you have all three lessons. In how many days will you have all the same day again?
6. A food pantry has 72 cans of corn, 60 cans of green beans, and 84 cans of fruit. They want to make identical boxes of food. How many boxes can be made using all the items? How many of each item are in each box?
7. Find the greatest perfect square that is a factor of the number
  - a. 588
  - b. 405
8. A soccer team has 22 players and a budget of \$2500. The players need new uniforms, which cost \$40 each, and new equipment, which costs \$400 for the entire team. The team also has to pay \$500 for field upkeep. How much money will be left in the team's budget?