# GCF or LCM: which do you need? · Grade 7

Name _____ Date _____ Score _____ / 6

**01** A choir of 12 sopranos and 18 altos stands in rows. Each row has the same number of singers and only one voice type. What is the largest row possible? Do you need the GCF or the LCM?

Answer: _____

**02** Two ribbons, 8 cm and 12 cm long, are cut into pieces all the same length with nothing left over. What is the longest each piece can be? Do you need the GCF or the LCM?

Answer: _____

**03** Red boxes are 9 cm tall and blue boxes are 15 cm tall. A stack of red boxes and a stack of blue boxes are the same height. What is the shortest that height can be? Do you need the GCF or the LCM?

Answer: _____

**04** A 12 cm by 16 cm board is cut into equal squares with no waste. What is the side length of the largest square possible? Do you need the GCF or the LCM?

Answer: _____

**05** Simi waters the cactus every 6 days and the fern every 15 days. Both were watered today. In how many days will both be watered on the same day again? Do you need the GCF or the LCM?

Answer: _____

**06** A camp has 8 Grade 7 students and 12 Grade 8 students. Each team gets the same number of each grade, using every student. What is the greatest number of teams? Do you need the GCF or the LCM?

Answer: _____

# GCF or LCM: which do you need? · Grade 7 (Answer Key)

01 A choir of 12 sopranos and 18 altos stands in rows. Each row has the same number of singers and only one voice type. What is the largest row possible? Do you need the GCF or the LCM?

**GCF: 6 singers**

02 Two ribbons, 8 cm and 12 cm long, are cut into pieces all the same length with nothing left over. What is the longest each piece can be? Do you need the GCF or the LCM?

**GCF: 4 cm**

03 Red boxes are 9 cm tall and blue boxes are 15 cm tall. A stack of red boxes and a stack of blue boxes are the same height. What is the shortest that height can be? Do you need the GCF or the LCM?

**LCM: 45 cm**

04 A 12 cm by 16 cm board is cut into equal squares with no waste. What is the side length of the largest square possible? Do you need the GCF or the LCM?

**GCF: 4 cm**

05 Simi waters the cactus every 6 days and the fern every 15 days. Both were watered today. In how many days will both be watered on the same day again? Do you need the GCF or the LCM?

**LCM: 30 days**

06 A camp has 8 Grade 7 students and 12 Grade 8 students. Each team gets the same number of each grade, using every student. What is the greatest number of teams? Do you need the GCF or the LCM?

**GCF: 4 teams**