4) Stephen is making a garden of 36 tomato plants and 45 corn plants. He wants to spread the plants out on as many rows as possible, so that each row has the same number of tomato plants and the same number of corn plants. **What is the maximum number of rows that Stephen can plant? How many tomato plants will be on each row? How many corn plants will be on each row?**

# of plants per row __9__

# of tomato plants per row __4__

# of corn plants per row __5__

36 TOMATO ÷ 9 = 4
45 CORN ÷ 9 = 5

GCF

GCF IS ON THE LEFT = 3×3 = 9

(3) ③ 36   45
    3   12   15
        4   5

5) Dayvon had a collection of baseball cards that he wants to divide evenly into his albums. He has 36 Braves cards and 48 Cubs cards. **What is the greatest number of albums he can use? How many Braves cards and Cubs cards will be in each album?**

# of albums __12__

# of Braves cards per album __3__

# of Cubs cards per album __4__

36 BRAVES ÷ 12 = 3
48 CUBS ÷ 12 = 4

GCF

(12) 36   48
     3   4

GCF ⇒ ON THE LEFT = 12

6) Two pigs entered a race around a track. Piggly takes 6 minutes to run one lap. Wiggly takes 5 minutes to run one lap. If both pigs begin the race at the same time, what is the shortest number of minutes it will take for them to be back at the starting line? How many laps will each pig have made at that time?

Time for both pigs to be at starting line __30__

# of laps for Piggly __5__

# of laps for Wiggly __6__

LCM

① 6   5
  ⑥   ⑤

PIGGLY = 30 ÷ 6 = 5
WIGGLY = 30 ÷ 5 = 6

LCM IS ALL OF THEM
1×6×5 = 30

12a

7) Enzo and Beatriz are playing games at their local arcade. Incredibly, Enzo wins 5 tickets from every game, and Beatriz wins 11 tickets from every game. When they stopped playing games, Enzo and Beatriz had won the same number of total tickets. **How many tickets did each student win? How many games did Enzo and Beatriz each play?**

# of tickets each student each won __55__

# of games that Enzo played __11__

# of games that Beatriz played __5__

ENZO = 55 ÷ 5 = 11
BEATRIZ = 55 ÷ 11 = 5

ENZO: 5, 10, 15 ...
BEATRIZ: 11, 22 ...

AFTER 1 GAME
AFTER 2 GAMES
GCF
LCM

THESE ARE MULTIPLES
FIND LCM

LCM IS ALL OF
THEM = 1×5×11 = 55

8) Tim has 39 pairs of headphones and 13 music players. Tim wants to sell all of the headphones and music players in identical packages. **What is the greatest number of packages Tim can make? How many headphones and music players will be in each package?**

# of packages Tim can make __13__

# of headphones per package __3__

# of music players per package __1__

HEADPHONES = 39 ÷ 13 = 3
MUSIC PLAYERS = 13 ÷ 13 = 1

GCF

(13) 39   13
     3   1

GCF IS ON THE LEFT
GCF = 13

9) Audra has two rolls of streamers to use in decorating the school gym for a pep rally. The red streamers are 64 yards long and the blue streamers are 72 yards long. **What is the maximum length each streamer can be so that they are all of equal length? How many red streamers would she have? How many blue streamers would she have?**

Length of each streamer __8__

# of red streamers __8__

# of blue streamers __9__

RED = 64 ÷ 8 = 8
BLUE = 72 ÷ 8 = 9

GCF

⑧ 64   72
  8   9

GCF IS ON THE LEFT
GCF = 8

12b

Scanned with CamScanner