

GCF and LCM - Word Problems

- 1) Lisa wants to tile her kitchen that is 15 feet x 18 feet. If she is going to use square tiles, what is the greatest possible side length of each tile?

- 2) Tony has joined the local sports club. He plays badminton every 4 days, practices basketball every 8 days, and goes in for carom once in a fortnight. If Tony plays all the sports, how long will it be before he plays badminton, basketball, and carom again?

- 3) There are 30 ceramic plates and 45 bowls in Martha's kitchen closet. She wants to rearrange them into sets. How many sets can she make, and how many plates and bowls will be left over?

- 4) Cindy is riding on a tram on a track with two opposite tracks. Trams run every 5 minutes. At the moment, both trams are at the starting point. After how long will the trams be at the starting point again?

- 5) A bike showroom features bikes of two major brands. It showcases 34 bikes of brand A and 51 bikes of brand B. The owner wants to showcase rows of both brands, with an equal number of bikes in every row. What is the maximum number of bikes he can display in each row?

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GCF and LCM - Word Problems

1) Lisa wants to tile her kitchen that is 15 feet x 18 feet. If she is going to use square tiles, what is the greatest possible side length of each tile?

3 feet

2) Tony has joined the local sports club. He plays badminton every 4 days, practices basketball every 8 days, and goes in for carom once in a fortnight. If Tony plays all the sports, how many days will it be before he plays badminton, basketball, and carom again?

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3) There are 30 ceramic plates and 12 bowls in Martha's kitchen closet. She wants to rearrange them into sets. How many sets can she possibly make, with an equal number of plates and bowls in each set have?

15 sets; 2 plates and 1 bowl

4) Cindy is riding an exercise bike on two tracks that run in opposite directions. The first track runs every 5 minutes. The second track runs every 7 minutes. At the moment, both tracks are passing the bike. How long will it be before both tracks pass the bike again?

20 minutes

5) A bike showroom features bikes of two major brands. It showcases 34 bikes of brand A and 51 bikes of brand B. The owner wants to showcase rows of both brands, with an equal number of bikes in every row. What is the maximum number of bikes he can display in each row?

17 bikes
