HCF Word Problems Worksheet – Grade 6

Name: _____ Date: _____

Exercise A: Solve the following word problems

1. Pencils and Pens: A shopkeeper has 24 pencils and 36 pens. He wants to make identical gift packs using all the pencils and pens, with no items left over. What is the greatest number of gift packs he can make?

2. Fruit Baskets: A fruit seller has 48 apples and 60 oranges. He wants to arrange them into identical baskets so that each basket contains the same number of apples and the same number of oranges. What is the greatest number of baskets he can make?

3. Cutting Ribbons: Two ribbons are 72 cm and 96 cm long. They must be cut into pieces of equal length without wasting any ribbon. What is the greatest possible length of each piece?

4. Classroom Groups: There are 32 boys and 40 girls in a school. The teacher wants to divide them into the greatest possible number of groups so that each group has the same number of boys and the same number of girls. How many groups can be formed?

5. Tiling a Floor: A rectangular floor is 120 cm long and 90 cm wide. Square tiles of the largest possible size are used to cover the floor without cutting any tile. What should be the side length of each square tile?

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6. Packing Chocolates: A shopkeeper has 54 milk chocolates and 72 dark chocolates. He wants to pack them into identical boxes, using all the chocolates. What is the greatest number of boxes he can make?

7. Making Garlands: A florist has 42 red flowers and 56 yellow flowers. She wants to make identical garlands using all the flowers. Each garland must contain the same number of red flowers and the same number of yellow flowers. What is the greatest number of garlands she can make?

8. Sports Teams: A coach has 45 boys and 60 girls. He wants to form the greatest possible number of equal groups, with the same number of boys in every group and the same number of girls in every group. How many groups can he form?

Exercise B: Challenge Questions

9. School Supplies: A school has 84 notebooks and 126 pencils. These items are to be distributed into identical packets, with no items left over. Find the greatest number of packets possible and the number of notebooks and pencils in each packet.

10. Garden Rows: A gardener has a rectangular garden measuring 144 m by 108 m. He wants to divide it into the largest possible square plots of equal size. Find the side length of each square plot and the total number of plots.