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79. Factors and Multiples

Practice Questions:

1. Write down all the factors of 12.

2. Write down all the factors of 18.

3. Write down the first 5 multiples of 6.

4. Write down the first 5 multiples of 9.

5. Find the highest common factor (HCF) of 12 and 18.

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79. Factors and Multiples

Practice Questions:

6. Find the highest common factor (HCF) of 20 and 30.

7. Find the lowest common multiple (LCM) of 3 and 4.

8. Find the lowest common multiple (LCM) of 6 and 8.

9. Write down the highest common factor (HCF) of 24 and 36.

10. Write down the lowest common multiple (LCM) of 5 and 7.

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79. Factors and Multiples

Scenario Questions:

1. A farmer has 16 cows and 24 sheep. He wants to make as many identical groups of cows and sheep as possible. How many of each animal should be in each group?

2. A teacher has 30 pencils and 45 rubbers. She wants to give identical sets to as many students as possible. How many pencils and rubbers will be in each set if she makes the maximum number of sets?

3. There are 20 red balloons and 28 blue balloons. They are to be put into as many identical bunches as possible. How many red balloons and how many blue balloons will be in each bunch?

4. A shop has 18 bottles of juice and 27 cartons of milk. They will be packed into as many identical hampers as possible. How many bottles and how many cartons will be in each hamper?

5. There are 24 blue chairs and 32 red chairs. They will be arranged into as many identical mixed stacks as possible. How many blue chairs and how many red chairs will be in each stack?

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Scenario Questions:

6. A bus leaves every 5 minutes and a train leaves every 7 minutes. After how many minutes will they next leave at the same time?

7. Two alarms ring every 9 minutes and every 12 minutes. After how many minutes will they ring together again?

8. Three sprinklers start together. They spray every 3 minutes, 5 minutes, and 6 minutes. After how many minutes will all three spray together again?

9. Cupcakes are sold in packs of 4 and cookies are sold in packs of 6. What is the smallest number of cupcakes and cookies that can be bought so that the totals are the same and no packs are left over?

10. Two joggers start together. One completes a lap in 8 minutes, the other in 12 minutes. After how many minutes will they both be at the starting line together again?

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ANSWERS

Topic 79.

Practice Questions:

1. 1, 2, 3, 4, 6, 12
2. 1, 2, 3, 6, 9, 18
3. 6, 12, 18, 24, 30
4. 9, 18, 27, 36, 45
5. 6
6. 10
7. 12
8. 24
9. 12
10. 35

Scenario Questions:

1. 2 cows, 3 sheep
2. 2 pencils, 3 rubbers
3. 5 red, 7 blue
4. 2 bottles, 3 cartons
5. 3 blue, 4 red
6. 35 min
7. 36 min
8. 30 min
9. 12 cupcakes, 12 cookies
10. 24 min

Verify Answers

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