

(eg) Three stores ordered

(eg) Class A = 25 minute class period
Class B = 40 minute class period.

Break = 5 minutes to go to the next class

If all students are to be in the closing homeroom period at the same time,

① How long a period of time must be scheduled?

② How many 25-minute classes and 40-minute classes will be scheduled in that amount of time?

⇒ Class A = $25 + 5 = 30$ | 30, 60, 90, 120,
Class B = $40 + 5 = 45$ | 45, 90, 135, 180

Use LCM

$(30 = 2 \cdot 3 \cdot 5)$
 $(45 = 3^2 \cdot 5)$
LCM = $2 \cdot 3^2 \cdot 5 = 90$

$2 \overline{) 30} \begin{array}{r} 15 \\ 30 \\ \hline 0 \end{array}$
 $3 \overline{) 45} \begin{array}{r} 15 \\ 45 \\ \hline 0 \end{array}$

Ans: ① ⇒ 90 min
② class A $\frac{90}{30} = 3$ classes
class B = $\frac{90}{45} = 2$ classes

$5 \overline{) 30} \begin{array}{r} 6 \\ 30 \\ \hline 0 \end{array}$
 $3 \overline{) 45} \begin{array}{r} 15 \\ 45 \\ \hline 0 \end{array}$
LCM = $3^2 \cdot 2 \cdot 5 = 90$

(eg)

Track

(A runs one lap every 3 min.
B " " " 4 min

① In how many minutes will both A and B beat the starting point again? ② Will A and B pass each other at some other point on the track prior to that time?

⇒ Use LCM.

A = 3 | 3, 6, 9, 12, 15, 18, 21, 24
B = 4 | 4, 8, 12, 16, 20, 24, 28, 32

$(3 = 3)$
 $(4 = 2^2)$
LCM = $3 \cdot 2^2 = 12$

$3 \overline{) 4} \begin{array}{r} 1 \\ 3 \\ \hline 1 \end{array}$
LCM = $3 \cdot 4 = 12$

Factors of 24 = 1, 2, 3, 4, 6, 12, 24

" " 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

Common factors of 24 and 36 = 1, 2, 3, 4, 6, 12

① The Greatest Common Factor (GCF) is the largest common factor of two or more numbers.

② Use prime factorization to find the GCF

(eg) Find the GCF of 24 and 36.

$24 = 2^3 \cdot 3$ ① Write the prime factorization of each number

$36 = 2^2 \cdot 3^2$ ② Circle the lowest power of each prime factor that occurs in both factorizations.

GCF = $2^2 \cdot 3 = 12$ ③ Product of the circled factors.

(eg) Find the GCF of 12 and 30

$12 = 2^2 \cdot 3$

$30 = 2 \cdot 3 \cdot 5$ LCM = $2 \cdot 3 \cdot 5 = 30$

$2 \overline{) 12} \begin{array}{r} 6 \\ 12 \\ \hline 0 \end{array}$
 $3 \overline{) 30} \begin{array}{r} 10 \\ 30 \\ \hline 0 \end{array}$

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1. Understanding the eBook Holt Mcdougle Algebra 2 Challenge Answers
 - The Rise of Digital Reading Holt Mcdougle Algebra 2 Challenge Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Mcdougle Algebra 2 Challenge Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Mcdougle Algebra 2 Challenge Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Mcdougle Algebra 2 Challenge Answers
 - Personalized Recommendations
 - Holt Mcdougle Algebra 2 Challenge Answers User Reviews and Ratings
 - Holt Mcdougle Algebra 2 Challenge Answers and Bestseller Lists
5. Accessing Holt Mcdougle Algebra 2 Challenge Answers Free and Paid eBooks
 - Holt Mcdougle Algebra 2 Challenge Answers Public Domain eBooks
 - Holt Mcdougle Algebra 2 Challenge Answers eBook Subscription Services
 - Holt Mcdougle Algebra 2 Challenge Answers Budget-Friendly Options

6. Navigating Holt Mcdougle Algebra 2 Challenge Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Mcdougle Algebra 2 Challenge Answers Compatibility with Devices
 - Holt Mcdougle Algebra 2 Challenge Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Mcdougle Algebra 2 Challenge Answers
 - Highlighting and Note-Taking Holt Mcdougle Algebra 2 Challenge Answers
 - Interactive Elements Holt Mcdougle Algebra 2 Challenge Answers
8. Staying Engaged with Holt Mcdougle Algebra 2 Challenge Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Mcdougle Algebra 2 Challenge Answers
9. Balancing eBooks and Physical Books Holt Mcdougle Algebra 2 Challenge Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Mcdougle Algebra 2 Challenge Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Holt Mcdougle Algebra 2 Challenge Answers
 - Setting Reading Goals Holt Mcdougle Algebra 2 Challenge Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Mcdougle Algebra 2 Challenge Answers
 - Fact-Checking eBook Content of Holt Mcdougle Algebra 2 Challenge Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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