

Prime Factorisation, HCF and LCM

Prime factorise 16
Prime factorise 27
Prime factorise 36
Prime factorise 42
Write 18 as a product of its prime factors
Write 54 as a product of its prime factors
Write 32 as a product of its prime factors
Find the HCF and LCM of 28 and 34
Find the LCM and HCF of 15 and 39
Find the HCF and LCM of 12, 16 and 40

Use a Venn Diagram to find the HCF and LCM of 12 and 18
John takes 3 minutes to walk round the block. Tom takes 7 minutes to walk round the block. If they start at the same time how many times would Tom have walked round the block before they both meet at the start again?
Classes 9a, 9b and 9c have 12, 18 and 32 people in respectively. A teacher wants to get a selection of pupils from each class to represent the school. He needs the same amount from each group to represent the school. How many students will represent the school in total in he takes the maximum number from each class?

Shannon is making identical balloon arrangements for a party. She has 32 maroon balloons, 24 white balloons, and 16 orange balloons. She wants each arrangement to have the same number of each colour. What is the greatest number of arrangements that she can make if every balloon is used?

Bridget has swimming lessons every fifth day and diving lessons every third day. If she had a swimming lesson and a diving lesson on May 5, when will be the next date on which she has both swimming and diving lessons?

Boxes that are 12 inches tall are being stacked next to boxes that are 18 inches tall. What is the shortest height at which the two stacks will be the same height?

You are making pumpkin pies for the bake sale. Piecrusts are sold in packages of 3. Pie filling is sold in 4-can packages. What is the least number of piecrusts and filling that you can buy to have the same number of each? How many of packages of each should you buy?
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Hot dogs and buns are an example I always use. Hotdogs come in packages of 10, while rolls come in either 8 or 12. What's the smallest number of each you have to buy to have the same number of each?
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Find the HCF and LCM of the following expressions

$2x^3$ and $4x$
$6p^2q^3$ and $9pq^2$
$10xy^3$ and $15y^4$
$28h^4j^3$ and $35hj^3$
$6p^3$, $18p^4q$ and $24pq^4$

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