

Examples



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Workout

Question 1: Find the lowest common multiple (LCM) of each pair of numbers.

- | | | | |
|---------------|---------------|---------------|---------------|
| (a) 15 and 35 | (b) 14 and 22 | (c) 15 and 21 | (d) 9 and 33 |
| (e) 12 and 15 | (f) 18 and 30 | (g) 16 and 20 | (h) 24 and 30 |
| (i) 16 and 36 | (j) 26 and 39 | (k) 25 and 30 | (l) 16 and 18 |
| (m) 24 and 56 | (n) 36 and 45 | (o) 60 and 72 | (p) 42 and 90 |

Question 2: Find the highest common factor (HCF) of each pair of numbers

- | | | | |
|----------------|----------------|-----------------|----------------|
| (a) 21 and 49 | (b) 35 and 45 | (c) 18 and 24 | (d) 18 and 45 |
| (e) 30 and 75 | (f) 28 and 42 | (g) 60 and 90 | (h) 48 and 64 |
| (i) 56 and 72 | (j) 18 and 23 | (k) 84 and 96 | (l) 38 and 95 |
| (m) 66 and 121 | (n) 56 and 140 | (o) 180 and 225 | (p) 64 and 224 |

Apply

Question 1: Given $60 = 2^2 \times 3 \times 5$ and $84 = 2^2 \times 3 \times 7$

Find (a) the lowest common multiple (LCM)

and (b) the highest common factor (HCF)

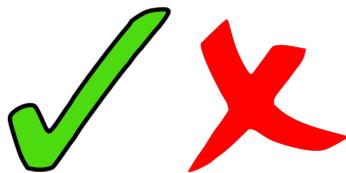
Question 2: Find the lowest common multiple (LCM) of 15, 20 and 25.

Product of Primes: LCM and HCF

Video 224 on www.corbettmaths.com

- Question 3: A red light flashes every 28 seconds.
A green light flashes every 24 seconds.
They both flash at the same time.
After how many seconds will they next both flash at the same time?
- Question 4: A bus heading to Belfast leaves Antrim every 36 minutes.
A bus heading to Ballymena leaves Antrim every 45 minutes.
At 10am bus to Belfast and a bus to Ballymena both leave Antrim Bus Station.
Work out the next time that both buses leave at the same time.
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- Question 5: Find the lowest common multiple of 124 and 200.
- Question 6: The LCM of two numbers is 130.
The HCF of the same two numbers is 13.
Both numbers are less than 100.
Write down two possible numbers.
- 
- Question 7: Fred says that 20 and 21 have got a highest common factor of 0.
Explain why Fred is wrong.
- Question 8: Abby and Annie have the same number of coins.
Abby has sorted her coins into groups of 80.
Annie has sorted her coins into groups of 75.
They each have less than 2000 coins.
How many coins do they altogether?
- Question 9: Adam is working out the highest common factor of 100 and 112.
He has worked it out to be 22.
Can you explain what he has done wrong?

Answers



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