



Extend

4 Find the lowest common multiple of these pairs of numbers.

- a. 4 and 10 _____ b. 3 and 6 _____

Tip

The lowest common multiple is the smallest number of a set of common multiples.

5 Find all the common factors of these pairs of numbers.

a. 24 and 36 _____

b. 36 and 54 _____

6 Find the highest common factor of these pairs of numbers.

- a. 36 and 54 _____ b. 48 and 60 _____

Tip

The highest common factor is the largest number of a set of common factors.



Apply

7 Find **three** pairs of prime numbers that add together to give 30.

- a. _____ + _____ b. _____ + _____ c. _____ + _____

8 Solve these problems.

a. Harrison is sticking cards into two albums. He puts 72 cards into one and 90 cards into the other. Every page has the same number of cards. What is the greatest number of cards that he could put on a page? _____

b. At a railway station, trains travelling north arrive every 15 minutes and trains travelling south arrive every 25 minutes. If two trains arrive at 14:45, what is the next time that two trains arrive at the station together? _____

c. A farmer has fewer than 100 eggs and must sort them into boxes of 6, 8 or 15. When he puts them in boxes of 6 or 8, there are 3 eggs left over. When he puts them into boxes of 15, there are none left over. How many eggs does the farmer have? _____