

Common Factors & Multiples



i. List all the factors of each of the following numbers

- 20
- 27
- 18
- 7
- 100
- 39

ii. Determine the Highest Common Factor (HCF) of the following pairs of numbers

- 10 and 12
- 27 and 45
- 20 and 30
- 85 and 100
- 4 and 76
- 35 and 91
- 14 and 94
- 21 and 30
- 35 and 38

iii. Determine the Lowest Common Multiple (LCM) of the following pairs of numbers

- 10 and 25
- 6 and 45
- 2 and 39
- 5 and 20
- 6 and 27
- 3 and 14
- 6 and 45
- 7 and 12
- 8 and 32

iv. Thomas has two lengths of rope. One length of rope is 24cm long and the other is 30cm long. Thomas wants to cut up the ropes into shorter pieces of equal length and have no rope left over.

- What is the longest possible length for each of the shorter pieces of rope?
- How many shorter pieces of rope will Thomas then have?