

Factors

- 1 List all the factors of
(i) 12 (ii) 20 (iii) 17 (iv) 28
- 2 Find the highest common factor (HCF) of the following sets of numbers.
(i) 12 and 18 (ii) 24 and 30 (iii) 40 and 120 (iv) 15, 30 and 45

Multiples

- 3 Write down the first five multiples of the following numbers.
(i) 5 (ii) 12 (iii) 40 (iv) 19
- 4 Find the lowest common multiple (LCM) of the following sets of numbers.
(i) 6 and 10 (ii) 15 and 25 (iii) 20 and 35 (iv) 3, 4 and 5

Index Numbers

- 5 Write the following numbers using index form.
(i) $3 \times 3 \times 3 \times 3$ (ii) $2 \times 2 \times 2 \times 2 \times 2$ (iii) $4 \times 4 \times 7 \times 7 \times 7$
(iv) $2 \times 2 \times 7 \times 7 \times 9 \times 9 \times 9$
- 6 Work out the value of:
(i) 6^2 (ii) 2^4 (iii) 4^3 (iv) 3^4
(v) $2^3 \times 3^2$ (vi) $2^5 \times 3^3$

Prime Factors

- 7 Express the following as a product of prime factors written in index form:
(i) 240 (ii) 420 (iii) 1000 (iv) 189

8 HCF and LCM Problems

- (i) Three different lights flash every 5 seconds, 8 seconds and 12 seconds respectively. If they start flashing at the same time how long will it take for them to flash at the same time again.
- (ii) What is the largest number of people that could share 72 apples and 54 bananas?