

To multiply and divide numbers mentally.

A

3 5 6 8

Look at the above numbers.

- 1 Which of the numbers are factors of:
 - a) 25 c) 40
 - b) 30 d) 45?
- 2 What is the product of:
 - a) the two largest numbers
 - b) the three smallest numbers?
- 3 Make a square number using the above digits only.

Write Yes or No.

- 4 Is 90 a multiple of 5?
- 5 Is 56 a multiple of 2?
- 6 Is 63 a multiple of 6?
- 7 Is 46 a multiple of 3?

Complete these factor pairs of 80.

8 20 and

9 and 5

10 10 and

11 Find all eight factors of 70.

12 Find all seven factors of 64.

13 Find a number that is a multiple of both:

- a) 4 and 9
- b) 3 and 8.

B

4 6 7 9

Use the above digits.

- 1 Which numbers are factors of:
 - a) 54 c) 126
 - b) 84 d) 72?
- 2 Find the product of:
 - a) the 3 largest numbers
 - b) the 3 smallest numbers.
- 3 Make two 2-digit square numbers using the above digits only.

Break the second number down into factors to work out.

- 4 24×15
- 5 56×16
- 6 $1400 \div 35$
- 7 $810 \div 18$
- 8 Find two common multiples of:
 - a) 3 and 7
 - b) 6 and 11.
- 9 Find all the factors of:
 - a) 78 b) 96.
- 10 What is the smallest number with exactly:
 - a) 6 factors
 - b) 5 factors?
- 11 What is the largest 2-digit number with:
 - a) only 2 factors
 - b) only 3 factors?

C

- 1 What is the smallest number that is a common multiple of:
 - a) 2 and 7
 - b) 6 and 9
 - c) 10 and 4
 - d) 6 and 8?
- 2 Find the highest factor shared by:
 - a) 32 and 80
 - b) 42 and 56
 - c) 12 and 45
 - d) 54 and 72.
- 3 Find the smallest two-digit number with exactly:
 - a) 8 factors
 - b) 9 factors
 - c) 10 factors
 - d) 12 factors.
- 4 What is the largest two-digit number with exactly:
 - a) 7 factors
 - b) 12 factors
 - c) 9 factors
 - d) 8 factors?

2 3 6 7 9

- 5 Use the above digits. Make as many two-digit numbers as you can that are multiples of:
 - a) 6 b) 4 c) 3.
- 6 Find the largest 3-digit square number.