Free Extra Maths Class · Grade 5

Factors, multiples and primes

Name: _____

Remember: A **factor** divides exactly into a number; factors come in **pairs** (3 × 4 = 12). **Multiples** are the times table. A **prime** has exactly 2 factors. **Why?** Factor pairs help you not to leave any out.

1 Write all the factors of 12.

2 Write all the factors of 18.

3 Write the first five multiples of 7.

4 Is 9 a factor of 54?

5 Is 4 a factor of 30?

6 Is 13 a prime number or a composite number?

7 Is 21 a prime number or a composite number?

8 Write the prime numbers between 20 and 30.

9 Write all the factor pairs of 36.

10 What are the common factors of 12 and 18?

11 Write the common multiples of 4 and 6 that are smaller than 30.

12 How many factors does 24 have?

13 Is 1 a prime number? Why?

14 30 learners stand in equal rows: more than 1 row, and more than 1 learner in every row. In how many ways can they stand?

15 I am a prime number between 40 and 50. My digits add up to 7. Who am I?

I got _____ out of 15 ☆ ☆ ☆

Free Extra Maths Class · Grade 5 · Memo

Memo: Factors, multiples and primes

1. **1, 2, 3, 4, 6, 12**
   In pairs: 1 × 12; 2 × 6; 3 × 4

2. **1, 2, 3, 6, 9, 18**
   In pairs: 1 × 18; 2 × 9; 3 × 6

3. **7, 14, 21, 28, 35**

4. **Yes**
   9 × 6 = 54

5. **No**
   30 ÷ 4 = 7 remainder 2

6. **Prime**
   Only the factors 1 and 13.

7. **Composite**
   21 = 3 × 7

8. **23, 29**

9. **1 × 36; 2 × 18; 3 × 12; 4 × 9; 6 × 6**

10. **1, 2, 3, 6**
    12: 1, 2, 3, 4, 6, 12 · 18: 1, 2, 3, 6, 9, 18

11. **12, 24**
    4: 4, 8, 12, 16, 20, 24, 28 · 6: 6, 12, 18, 24

12. **8**
    1, 2, 3, 4, 6, 8, 12, 24

13. **No: it has only one factor**
    A prime number has exactly 2 factors.

14. **6**
    Factors of 30 without 1 and 30: 2, 3, 5, 6, 10, 15

15. **43**
    Primes: 41, 43, 47. Only 4 + 3 = 7.