bananalearn

LEARN IT. UNDERSTAND IT. TRY IT.

Factors and multiples for Grade 4

Practice worksheet - Maths · Grade 4

Name: _____ Date: _____

Show your working. Answers and explanations follow on a separate page.

Try each question before opening its explanation. Show the calculation or picture that supports your answer, and include units where needed.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. List the positive factors of 12.

2. List the positive factors of 15.

3. List the positive factors of 25.

4. Write the first four positive multiples of 9.

5. Is 42 a multiple of 6?

6. Is 6 a factor of 42?

7. Is 8 a factor of 30?

8. Find the common positive factors of 12 and 18.

9. Find the least positive common multiple of 3 and 5.

10. Is 1 prime?

11. Is 2 prime?

12. Is 35 prime?

13. Arrange 18 tiles into equal rows with no leftovers. Can each row have 4 tiles?

14. Pack 12 red and 18 blue beads into as many identical packs as possible. How many packs?

15. Is zero a multiple of five?

16. Give a number that is both a factor of 24 and a multiple of 3.

Answers and explanations

Answer key - Maths · Grade 4

Factors and multiples for Grade 4

1. 1, 2, 3, 4, 6, 12.

The pairs are 1 × 12, 2 × 6 and 3 × 4.

2. 1, 3, 5, 15.

The distinct pairs are 1 × 15 and 3 × 5.

3. 1, 5, 25.

The pair 5 × 5 contributes five only once to the list.

4. 9, 18, 27, 36.

Multiply nine by 1, 2, 3 and 4.

5. Yes.

42 = 6 × 7.

6. Yes.

42 ÷ 6 = 7 with no remainder.

7. No.

8 × 3 = 24 and 8 × 4 = 32; neither equals 30.

8. 1, 2, 3 and 6.

Each of those values divides both numbers exactly.

9. 15.

Positive multiples first overlap at 15.

10. No.

It has one positive factor, whereas a prime has exactly two.

11. Yes.

Its only positive factors are one and two.

12. No; it is composite.

5 × 7 = 35 gives a factor pair beyond one and itself.

13. No.

Four does not divide 18 exactly; four rows of four use 16 and leave two.

14. 6 packs.

Six is the greatest common factor. Each pack has two red and three blue beads.

15. Yes, if whole-number multiples including zero are allowed.

5 × 0 = 0. A list of positive multiples begins at five.

16. For example, 6.

Six divides 24 and equals 3 × 2. Three, twelve and twenty-four also work.