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# Common Factors & Multiples

## Year 6

**Factors**

A factor of a number is any amount that divides into that number evenly, leaving no remainder.  
For example, 6 is a factor of 30 because it goes in 5 times ( $6 \times 5 = 30$ )

- 23.  $(-2)^3 \times (-2)^{10} = (-2)^{\dots}$
- 25.  $(\frac{11}{13})^4 \times (\frac{11}{13})^7 = (\frac{11}{13})^9$
- 27.  $(\frac{7}{11})^{3^4} = (\frac{7}{11})^{\dots}$
- 29.  $(\frac{-1}{4})^6 = (\frac{1}{4})^{\dots}$
- 31.  $a^6 \times a^2 \times a^8 = a^{\dots}$
- 33. 1 million =  $10^{\dots}$
- 35.  $432 = 2^4 \times 3^{\dots}$
- 37. 8888000000 =  $\dots \times 10^8$
- 39. 340900000 =  $3.409 \times 10^{\dots}$
- 40. Fill in the blanks with <, > or = sign.
  - (a)  $3^5 \dots 15$  (b)  $2^3 \dots 3^2$
  - (c)  $7^4 \dots 5^4$  (d)  $10,000 \dots 10^5$
  - (e)  $6^4 \dots 4^4$

- 24.  $(-3)^2 + (-3)^2 = (-3)^{\dots}$
- 26.  $(\frac{-1}{2})^3 \times (\frac{-1}{2})^7 = (\frac{-1}{2})^{11}$
- 28.  $(\frac{8}{13})^{10} \times (\frac{6}{13})^2 = (\frac{8}{13})^{\dots}$
- 30.  $(\frac{11}{14})^5 + (-1)^2 \times (\frac{11}{14})^3$
- 32. 1 lakh =  $10^{\dots}$
- 34.  $729 = 3^{\dots}$
- 36. 53700000 =  $\dots \times 10^7$
- 38. 27500000 =  $2.75 \times 10^{\dots}$

## MATHEMATICS FACTORS AND MULTIPLES

**Match the following numbers with their multiples :**

<p>a. 6</p> <p>b. 8</p> <p>c. 12</p> <p>d. 15</p> <p>e. 50</p>	<p>i. 24, 36, 48, 60</p> <p>ii. 100, 150, 200, 250</p> <p>iii. 16, 24, 32, 40</p> <p>iv. 30, 45, 60, 75</p> <p>v. 12, 18, 24, 30</p>
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**List all the factors of following numbers in ascending order:**

- 12
- 6
- 3
- 17
- 20

is a factor of every number

Prime factorization worksheet grade 7 pdf. Prime factorization worksheet free. Prime factorization worksheet grade 7. Prime factorization worksheet 6th grade pdf. Prime factorization 7th grade.

Find the prime factors by division method. Solution:  $17 = 1 \times 17$  Therefore, the factors of 17 are 1 and 17. Then click the add selected questions to a test button before moving to another page. Each worksheet is randomly generated and thus unique. Solution: To solve this problem, we need to know the factors of 17. This implies that 17 and 3 are co-prime. You can customize the worksheets by choosing the difficulty level, limits for the numbers to be factored, font size, spacing, border, and the number of problems. By contrast, 6 other means just that: only six pennies out of 100, six parts out of a 100, or six tiny slivers of cake out of 100. => Learn more and LOOK INSIDE! See more Math Made Easy books at Amazon Improve your students' math skills and help them learn how to calculate fractions, percentages, and more with these word problems. (i) 42(ii) 95 (iii) 4 (iv) 94 (v) 28 (vi) 52 (vii) 40 (viii) 84 3. Hence, 17 and 4 have only one common factor which is 1. Find the prime factors by factor method. Example 2: There are 17 plates on the dining table. Factors of 17 are 1, 17 and, the sum of all these factors is  $1 + 17 = 18$  What is the Greatest Common Factor of 17 and 3? The second pair tells us that we can keep 17 stacks of 1 plate. They first need to determine how much cake was left after the birthday Then they need to see what fraction was left the next day after dad gobbled up some more of the cake:  $C = 3/7 \times 1/2C = 3 \times 1/7 \times 1/2C = 3/14$  So  $3/14$  of the cake was left over after dad had a snack the next day. To help students, go over the first problem as a class: Sam loves basketball and can sink the ball in the net 65% of the time. The factors of  $17 = 1, 17$  Let's see how the factor pairs can help us. More detailed explanations of some of the problems are also provided within the sections. The second problem, and answer, state: Problem: 4/7 of the birthday cake was eaten on your birthday. In prime factorization, we express 17 as a product of its prime factors. Determine the prime factorization by any method you like. 2 and 4. If he takes 30 shots, how many will he sink? Therefore, 17 and 4 are co-prime. Explain to students that the correct answer is .6, 60%, and  $3/5$  or 60 parts out of 100, or six out of 10, or 60 parts out of 100. Have students learn how to calculate a rate of return and how to divide a large area into smaller lots with these math problems. Therefore, the product of prime factors =  $17 = 17, 17 = 1 \times 17$  Therefore, the pair factors of 17 are (1, 17). A number can have negative pair factors as well. This is because of the fact that the product of two negative numbers is positive. Therefore, there are no other prime factors of 17 other than 17 itself. For ease of grading, identical worksheets, including the answers, are printed in section Nos. The sections below contain two-word problem worksheets for students, in section Nos. (i)  $2 \times 3 \times 5$  (ii)  $2 \times 2 \times 3 \times 3$  (iii)  $1 \times 5$  (iv)  $3 \times 3 \times 3$  (v)  $2 \times 2 \times 2 \times 2 \times 7$  (vi)  $2 \times 2 \times 2 \times 2 \times 5$  (vii)  $2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 4$ . Example 3: Find the product of all the prime factors of 17. The next day your dad ate 1/2 of what was left. Hence, the factor pairs are (1, 17) and (17, 1). But since you can't make half a shot, Sam made 19 shots if you don't round up. Practice calculating fractions and percentages with problems such as: When the birthday cake was about to be served, you were told you could have 0.6, 60%,  $3/5$ , or 6%. Explain to students that they simply need to convert 65% to a decimal (0.65), and then multiply that number by 30. Explore factors using illustrations and interactive examples. So, we factorize 17 as: By prime factorization method, we get  $17 = 1 \times 17$ . The factors of 17 are 1, 17 and the factors of 3 are 1, 3. The exercises are designed for students in the seventh grade, but anyone who wants to get better at math will find them useful. Factors are whole numbers that divide the given number completely without leaving any remainder. For the first problem, demonstrate how to work out the solution if students are still having difficulty, where "S" equals shots made: So Sam made 19.5 shots. Fifth Grade: Provides practice at all the major topics for Grade 5 with emphasis on addition and subtraction. You can create printable tests and worksheets from these Grade 7 Primes, Factors, and Multiples questions! Select one or more questions using the checkboxes above each question. But in this rare case, you'd round down because, as noted, you can make half a shot. Find the solutions to the word problems that students tackled in the first math worksheet. Answer: 3/14 If students are struggling, explain that they can easily find the answer by multiplying fractions as follows, where "C" stands for the portion of cake that is left. (i)  $2 \times 3 \times 7$  (ii)  $5 \times 19$  (iii)  $2 \times 2 \times 2 \times 2 \times 7$  (iv)  $2 \times 2 \times 7$  (v)  $2 \times 2 \times 13$  (vi)  $2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 7$  (vii)  $2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 3 \times 7$  (viii)  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 11$  (ix)  $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 7$  (x)  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 11$  (xi)  $2 \times 3 \times 11$  (xii)  $3 \times 3 \times 3 \times 3 \times 5 \times 4$ th Grade Math Activities From Worksheet on Methods of Prime Factorization to HOME PAGE Didn't find what you were looking for? Hence, we can have 2 possible arrangements. This shows that 17 is a prime number because it has no factors other than 1 and itself. Can you think of the different ways in which we can stack them? 17 and 3 have only one common factor which is 1. How Many Factors of 17 are also common to the Factors of 4? 1 and 3. The worksheets are available in both html and PDF formats (both are easy to print), and they come with an answer key on the second page of the file. Score: 0% Rank: Correct Answer: You are here: Home -> Worksheets -> Factoring Create an unlimited supply of free worksheets for prime factorization or for finding all the factors of the given numbers. (i) 2 (ii) 86 (iii) 50 (iv) 68 (v) 74 (vi) 90 (vii) 88 (viii) 48 (ix) 81 (x) 42 (xi) 66 (xii) 45 Answers for the worksheet on methods of prime factorization are given below. Answers: 1. There are overall 2 factors of 17 i.e. 1 and 17 where 17 is the biggest factor. The answer key will list the factorization using exponential notation: each prime factor is raised to the appropriate power. Since, the factors of 17 are 1, 17 and factors of 4 are 1, 2, 4. What are the Prime Factors of 17? What is the Sum of all the Factors of 17? Important Notes: There are only 2 factors of 17, which are 1 and 17. Find the solutions to the word problems that students tackled in the first math worksheet. Find the number. (i)  $2 \times 5 \times 7$  (ii)  $3 \times 7 \times 7$  (iii)  $2 \times 7 \times 13$  (iv)  $2 \times 2 \times 3 \times 5$  (v)  $7 \times 11 \times 11$  (vi)  $5 \times 5 \times 7$  (vii)  $3 \times 3 \times 7$  (viii)  $2 \times 3 \times 3 \times 7$  (ix)  $3 \times 5 \times 5 \times 7 \times 2$ . Example 1: List the factors of 17 and write its factor pairs. Use this Google Search to find what you need. Share this page. What's this? 17 is a prime number. Hence, the Greatest Common Factor (GCF) of 17 and 3 is 1. How to Calculate the Factors of 17? Factor pairs of 17 = (1, 17), (17, 1). Solution: Since, the prime factors of 17 are 17. The prime factor of 17 is 17. Book a Free Trial Class The factors of 17 are 1, 17 and its negative factors are -1, -17. We can use different methods like the divisibility test, prime factorization, and the upside-down division method to calculate the factors of 17. (i) 1  $\times$  2 (ii) 2  $\times$  43 (iii) 2  $\times$  5  $\times$  5 (iv) 2  $\times$  2  $\times$  17 (v) 2  $\times$  2  $\times$  17 (vi) 2  $\times$  2  $\times$  17 (vii) 2  $\times$  2  $\times$  2  $\times$  5 (viii) 2  $\times$  2  $\times$  2  $\times$  2  $\times$  2  $\times$  2  $\times$  3  $\times$  4. Just to be safe. Factors of 17: 1 and 17 Negative Factors of 17: -1 and -17 Prime Factors of 17: 17 Sum of Factors of 17: 17 Sum of Factors of 17: 17 What Are the Factors of 17? Example worksheets Note: The largest number to be factored allowed is 10,000, because I don't want people to try such enormous factoring feats that it would crash the server. Its Prime Factors are 1, 17 and (1, 17) are Pair Factors. go to slidego to slidego to slide Breakdown tough concepts through simple visuals. Previous Page 1 of 2 Next Previous Page 1 of 2 Next Factors of 17 are numbers that, when multiplied in pairs give the product as 17. Hence, (-1, 17) is also a factor pair of 17. Practice the questions given in the worksheet on methods of prime factorization.1. Each of the following is the prime factorization of a certain number. You get to finish the cake, how much is left? Factors of 175 - The factors of 175 are 1, 5, 7, 25, 35, 175 Factors of 117 - The factors of 117 are 1, 3, 9, 13, 39, 117 Factors of 16 - The factors of 16 are 1, 2, 4, 6, 8, 16 Factors of 19 - The factors of 19 are 1, 19 Factors of 20 - The factors of 20 are 1, 2, 4, 5, 10, 20 Factors of 68 - The factors of 68 are 1, 2, 4, 17, 34, and 68 Factors of 17 by Prime Factorization Prime factorization is expressing the number as a product of its factors which are prime. We can do the prime factorization of any number by: Upside-down division method or Factor tree method Prime factorization by division method: We know that 1 is a factor of every number, and 17 is not a multiple of any number. The sum of all factors of 17 is 18. Includes a review of Grade 4 topics. Normally, you'd round up decimals five and greater to the next whole number, which would be 20 in this case. The factors of 17 are 1 and 17. Or want to know more information about Math Only Math. Find out what birthday cakes, grocery stores, and snowballs have in common with these fun word problems. The factor pairs of 17 are (1,17) and (-17,-1).

2- Use the prime factorization to find the Greatest Common Factor (GCF) You can use prime factorization to find the Greatest Common Factor (GCF) for a set of numbers. In the case of bigger numbers - which are time-consuming to create a list of factors - this method usually works best. Step 1: List the prime factors of each number. Create an



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