



Math Worksheet for 6th Grade

Dividing whole numbers

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Questions ($9815 \div 65$)

1. Compute $9815 \div 65$.
2. What are the quotient and remainder when 9815 is divided by 65?
3. If 9815 apples are packed equally into crates that hold 65 apples each, how many full crates are made?
4. After packing the apples in question 3, how many apples are left over?
5. Write a multiplication sentence to check the division $9815 \div 65$.
6. Express the quotient of $9815 \div 65$ as a decimal with two decimal places.
7. Express the remainder of $9815 \div 65$ as a fraction of the divisor.
8. True or false: 9815 is divisible by 5 and by 13. (Explain briefly.)
9. If 151 students share 9815 stickers equally, how many stickers does each student get?
10. If each shelf holds 65 books, how many shelves are needed for 9815 books (assuming full shelves only)?
11. Find the missing number: _____ $\times 65 = 9815$.
12. If you add 20 to the quotient of $9815 \div 65$, what number do you get?
13. Subtract 51 from the quotient of $9815 \div 65$. What is the result?
14. A teacher has 9815 pencils and wants to put 65 pencils in each bundle. How many bundles will the teacher make and how many pencils in an incomplete bundle?
15. If each gift box holds 13 items and you packed 9815 items, how many boxes of 13 would you fill? (Hint: $65 = 5 \times 13$.)
16. Estimate the quotient of $9815 \div 65$ by rounding 9815 to 9800. Is the estimate closer to 150 or 160?
17. Fill in the blank in the long-division step: $65 \times 150 =$ _____. Use this to help divide 9815 by 65.
18. If you grouped 9815 objects into 65 equal groups, how many objects would be in each group?
19. True or false: Dividing 9815 by 65 gives a remainder greater than 10.
20. If the quotient of $9815 \div 65$ were increased by 10%, what would the new value be (to the nearest whole number)?
21. A factory makes 9815 small parts and packs them in boxes of 65. If each box sells for \$2, how much money will be received for all full boxes?
22. Rearrange the division as an equation and solve: $65q = 9815$. What is q?
23. If the divisor were doubled (130 instead of 65), would the quotient be larger or smaller? Without calculating exactly, explain.
24. What is the prime factorization of 65, and why does that help decide whether 9815 is divisible by 65?
25. Show how you would check your answer to $9815 \div 65$ using multiplication and addition.

Questions ($7182 \div 42$)

26. Compute $7182 \div 42$.
27. What are the quotient and remainder when 7182 is divided by 42?



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28. If 7182 marbles are put into jars holding 42 marbles each, how many full jars are there?
29. After filling jars in question 28, how many marbles are left over?
30. Write a multiplication sentence to check the division $7182 \div 42$.
31. Express the quotient of $7182 \div 42$ as a decimal with two decimal places.
32. Express the remainder of $7182 \div 42$ as a fraction of the divisor.
33. True or false: 7182 is divisible by 2 and by 3. (Explain briefly.)
34. If 171 students each receive the same number of pages from a packet of 7182 pages, how many pages does each student get?
35. If each shelf holds 42 folders, how many shelves are needed for 7182 folders (full shelves only)?
36. Find the missing number: _____ $\times 42 = 7182$.
37. If you subtract 71 from the quotient of $7182 \div 42$, what do you get?
38. A shop packs pencils in packets of 42. They have 7182 pencils. How many packets can they make and how many pencils remain unpacked?
39. If each packet in question 38 sells for \$3, how much money will be received for all full packets?
40. Estimate the quotient $7182 \div 42$ by rounding 42 to 40. Is the estimate closer to 180 or 170?
41. If you grouped 7182 items into 42 groups, how many items would be in each group?
42. True or false: Dividing 7182 by 42 gives a zero remainder.
43. If the divisor were halved (21 instead of 42), what would happen to the quotient – would it double, halve, or something else? Explain.
44. What is the prime factorization of 42, and why might that help in checking divisibility of 7182?
45. A classroom needs to form teams of 42 students from 7182 available students (hypothetical). How many complete teams are possible?
46. Rearrange the division problem as an equation $42 \times q = 7182$ and solve for q .
47. If you add the quotient of $7182 \div 42$ to the quotient of $9815 \div 65$, what is the sum?
48. Use multiplication to check your answer to $7182 \div 42$. Show the multiplication result.
49. If each of the 171 groups from $7182 \div 42$ gave 10 items to charity, how many items would be given in total?
50. Compare the two quotients (from $9815 \div 65$ and from $7182 \div 42$). Which is larger and by how much?