

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

Questions

1. Volume:  $\frac{1}{2} \times 1 \times 2 = ?$
2. Volume:  $\frac{1}{2} \times \frac{1}{2} \times 1 = ?$
3. Volume:  $\frac{3}{4} \times 1 \times 2 = ?$
4. Volume:  $\frac{1}{3} \times 3 \times 3 = ?$
5. Volume:  $\frac{1}{4} \times 2 \times 4 = ?$
6. Volume:  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = ?$
7. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?
8. How many  $\frac{1}{3}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?
9. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?
10. Volume:  $2 \times \frac{1}{2} \times \frac{1}{2} = ?$
11. Volume:  $\frac{3}{4} \times \frac{1}{2} \times 2 = ?$
12. Volume:  $\frac{5}{6} \times 1 \times \frac{3}{2} = ?$
13. Volume:  $\frac{4}{5} \times \frac{1}{2} \times 5 = ?$
14. Volume:  $\frac{7}{8} \times 1 \times 2 = ?$
15. Volume:  $2 \frac{1}{2} \times \frac{1}{2} \times 2 = ?$
16. Volume:  $1 \times 1 \times \frac{3}{4} = ?$
17. Volume:  $3 \times \frac{1}{4} \times \frac{1}{4} = ?$
18. Volume:  $5 \times \frac{1}{5} \times 1 = ?$
19. Volume:  $\frac{9}{10} \times 10 \times \frac{1}{2} = ?$
20. Volume:  $\frac{1}{6} \times 6 \times 1 = ?$
21. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $1 \times 2 \times 3$  prism?
22. How many  $\frac{1}{3}$ -unit mini-cubes fit in a  $1 \times 1 \times \frac{1}{3}$  prism?
23. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $2 \times 1 \times 1$  prism?
24. How many  $\frac{1}{5}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?
25. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $\frac{3}{2} \times 1 \times 1$  prism?
26. A cube of side  $\frac{3}{4}$  is filled with  $\frac{1}{4}$ -unit mini-cubes. How many small cubes?
27. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $2 \times 3 \times \frac{1}{2}$  prism?
28. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $1 \frac{1}{2} \times 1 \times \frac{1}{2}$  prism?
29. How many  $\frac{1}{8}$ -unit mini-cubes fit in a  $1 \times 1 \times 2$  prism?
30. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $3 \times 1 \times \frac{1}{2}$  prism?
31. How many  $\frac{1}{10}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?



# Math Worksheet for 6th Grade

## Volume with mini cubes

Name: \_\_\_\_\_

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32. A prism has volume  $\frac{3}{4}$  cubic units. How many  $\frac{1}{8}$ -unit mini-cubes fill it?
33. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube? (repeat check)
34. A cube of side  $\frac{5}{4}$  is filled with  $\frac{1}{4}$ -unit mini-cubes. How many small cubes?
35. How many  $\frac{1}{3}$ -unit mini-cubes fit in a  $2 \times 2 \times 3$  prism?
36. How many  $\frac{1}{2}$ -unit mini-cubes fit in a cube of side  $\frac{3}{2}$ ?
37. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $4 \times \frac{1}{2} \times \frac{1}{2}$  prism?
38. A cube of side  $\frac{7}{4}$  is filled with  $\frac{1}{4}$ -unit mini-cubes. How many small cubes?
39. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $\frac{1}{2} \times \frac{1}{2} \times 1$  prism?
40. How many  $\frac{1}{4}$ -unit mini-cubes fit in a  $\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$  cube?
41. Volume:  $\frac{5}{6} \times \frac{3}{4} \times 2 = ?$
42. Volume:  $\frac{7}{10} \times \frac{5}{7} \times 2 = ?$
43. Volume:  $4 \times \frac{1}{2} \times \frac{3}{5} = ?$
44. Volume:  $2 \frac{2}{3} \times \frac{3}{4} \times 3 = ?$
45. Volume:  $1 \frac{1}{3} \times \frac{1}{2} \times \frac{3}{4} = ?$
46. How many  $\frac{1}{6}$ -unit mini-cubes fit in a  $1 \times 1 \times 1$  cube?
47. How many  $\frac{1}{2}$ -unit mini-cubes fit in a  $2 \times 2 \times 2$  cube?
48. How many  $\frac{1}{6}$ -unit mini-cubes fit in a  $3 \times \frac{1}{2} \times \frac{1}{3}$  prism?
49. A cube of side  $\frac{9}{4}$  is filled with  $\frac{1}{4}$ -unit mini-cubes. How many small cubes?
50. How many  $\frac{1}{8}$ -unit mini-cubes fit in a  $\frac{5}{8} \times 1 \times 2$  prism?