

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Questions

1. Multiply: 23×10
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2. Multiply: 7×100
3. Multiply: $412 \times 1,000$
4. Divide: $540 \div 10$
5. Divide: $8,300 \div 100$
6. Divide: $56,000 \div 1,000$
7. Multiply: 0.6×10
8. Multiply: 0.09×100
9. Multiply: $3.47 \times 1,000$
10. Divide: $45 \div 10$
11. Divide: $12.5 \div 10$
12. Divide: $0.84 \div 100$
13. Move the decimal: What is 6.32×100 ?
14. Move the decimal: What is $0.207 \times 1,000$?
15. Move the decimal: What is $49,000 \div 100$?
16. Write in exponent form: $10 \times 10 =$
17. Write in exponent form and evaluate: $10^2 =$
18. What is 10^3 ?
19. Write 1,000 using powers of ten (use exponent notation).
20. Write 100,000 using powers of ten (use exponent notation).
21. Fill the blank: Multiplying by 10 moves the decimal point _____ (left/right).
22. Fill the blank: Dividing by 100 moves the decimal point _____ (left/right).
23. What is 5×10^2 ?
24. What number is 9×10^3 ?
25. Express 7,000 as $7 \times 10^?$ (fill the ?)
26. Which is larger: 4×10^2 or 40×10^1 ?
27. Write 0.3 as a fraction showing division by a power of 10.
28. Write 0.45 as a fraction showing division by a power of 10.
29. Write 0.007 as a fraction with a denominator that is a power of 10.
30. Convert the fraction to a decimal: $125 \div 1,000$

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31. Convert $47 \div 100$ to a decimal.
32. Write $\frac{3}{10}$ as a decimal and as a division by a power of 10.
33. Write $\frac{89}{100}$ as a decimal and say which power of 10 is the denominator.
34. Express $560 \div 10$ as $56 \times$ what power of 10? (give the power)
35. A ribbon is 0.8 meters long. Express its length in centimeters by multiplying or dividing by a power of 10.
36. A toy factory makes 2,000 toy cars each day. How many cars are made in 10 days?
37. A bottle contains 0.25 liters of juice. How many milliliters is that? (Use powers of 10; 1 L = 1,000 mL)
38. A school has 3×10^2 students. How many students is that?
39. If you multiply a number by 100, by how many places does the decimal move?
40. True or False: $300 \div 10 = 30$ is the same as moving the decimal point one place to the left.
41. A baker needs 4.5 kg of flour. How many grams is that? (1 kg = 1,000 g)
42. Sam has \$12.50. He multiplies it by 10. How much money does he have now?
43. A computer file is 0.006 MB. Multiply it by 1,000. What is the result?
44. A car travels 48 kilometers in 1 hour. How many kilometers in 1,000 hours? (use multiplication by a power of 10)
45. Write 0.0009 in fraction form with a power-of-10 denominator.
46. Convert $3,450 \div 100$ to a decimal.
47. Convert 0.36×100 to a whole number or decimal.
48. A recipe calls for 0.02 kg of salt. How many grams is that?
49. Fill in the blank: $2.5 \times 10^1 =$ _____
50. Explain briefly (one sentence) why multiplying a decimal by 100 moves the decimal point two places to the right.