



Multiplying and Dividing Powers of Ten

Name: _____

Solve each problem.

Answers

$$5.47 \times 10^4$$

This is the same as saying:

$$5.47 \times (10 \times 10 \times 10 \times 10)$$

And because the base is 10 you can just move the decimal 4 places to the right to solve.

$$\underline{5} \underline{4} \underline{7} \underline{0} \underline{0}.$$

$$5.47 \times 10^4 = 54,700$$

$$2.36 \div 10^2$$

Division is the same way. Only instead of moving the decimal right, you move it left.

$$\underline{0} \underline{2} \underline{3} \underline{6}$$

You can also multiply a negative exponent, which means the same thing.

$$2.36 \times 10^{-2} = 2.36 \div 10^2$$

1) $5.3 \div 10^2$

2) 44.88×10^1

3) $1.59 \div 10^1$

4) 2.572×10^3

5) $4.35 \div 10^4$

6) 49.6×10^2

7) $4.42 \div 10^2$

8) 99.93×10^4

9) $773.645 \div 10^2$

10) 4.324×10^4

11) $673.4 \div 10^1$

12) 7.297×10^1

13) $547.46 \div 10^1$

14) 7.231×10^3

15) $442.167 \div 10^4$

16) 16.69×10^2

17) $5.73 \div 10^1$

18) 782.9×10^3

19) $86.43 \div 10^2$

20) 8.5×10^4

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

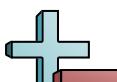
16. _____

17. _____

18. _____

19. _____

20. _____



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Name: **Answer Key**

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$$\underline{0} \underline{2} \underline{3} \underline{6}$$

You can also multiply a negative exponent, which means the same thing.

$$2.36 \times 10^{-2} = 2.36 \div 10^2$$

Answers**0.053****448.8****0.159****2,572****0.000435****4,960****0.0442****999,300****7.73645****43,240****67.34****72.97****54.746****7,231****0.0442167****1,669****0.573****782,900****0.8643****85,000**

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