

Multiplying and Dividing Powers of Ten

Name: _____

Solve each problem.

$$5.47 \times 10^4$$

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.

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

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

$$2.36 \div 10^2$$

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

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

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

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

1) $489.22 \div 10^4$

2) 18.995×10^3

3) $294.32 \div 10^1$

4) 327.498×10^1

5) $8.72 \div 10^1$

6) 163.761×10^4

7) $6.41 \div 10^1$

8) 847.5×10^2

9) $4.56 \div 10^1$

10) 747.3×10^1

11) $56.99 \div 10^2$

12) 843.12×10^1

13) $7.15 \div 10^4$

14) 23.745×10^4

15) $335.668 \div 10^1$

16) 95.81×10^4

17) $1.7 \div 10^2$

18) 67.296×10^2

19) $837.892 \div 10^2$

20) 22.411×10^3

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

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10. _____

11. _____

12. _____

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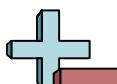
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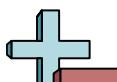
17) $1.7 \div 10^2$

18) 67.296×10^2

19) $837.892 \div 10^2$

20) 22.411×10^3

Answers1. **0.048922**2. **18,995**3. **29.432**4. **3,274.98**5. **0.872**6. **1,637,610**7. **0.641**8. **84,750**9. **0.456**10. **7,473**11. **0.5699**12. **8,431.2**13. **0.000715**14. **237,450**15. **33.5668**16. **958,100**17. **0.017**18. **6,729.6**19. **8.37892**20. **22,411**



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

1) $9.815 \div 10^1$

2) 361.3×10^2

3) $314.72 \div 10^3$

4) 782.49×10^3

5) $15.34 \div 10^3$

6) 598.2×10^1

7) $15.22 \div 10^3$

8) 356.5×10^4

9) $753.19 \div 10^4$

10) 183.73×10^4

11) $7.9 \div 10^2$

12) 68.9×10^1

13) $2.538 \div 10^4$

14) 15.235×10^2

15) $5.446 \div 10^1$

16) 61.78×10^3

17) $244.2 \div 10^2$

18) 439.2×10^4

19) $293.62 \div 10^1$

20) 65.72×10^4

Answers

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Answers**0.9815****36,130****0.31472****782,490****0.01534****5,982****0.01522****3,565,000****0.075319****1,837,300****0.079****689****0.0002538****1,523.5****0.5446****61,780****2.442****4,392,000****29.362****657,200**



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

1) $658.866 \div 10^3$

2) 65.2×10^4

3) $9.9 \div 10^1$

4) 2.75×10^1

5) $25.72 \div 10^4$

6) 8.4×10^4

7) $688.39 \div 10^2$

8) 95.916×10^2

9) $88.96 \div 10^2$

10) 5.747×10^2

11) $446.85 \div 10^1$

12) 52.182×10^1

13) $4.32 \div 10^4$

14) 9.591×10^2

15) $76.461 \div 10^3$

16) 438.893×10^1

17) $839.616 \div 10^4$

18) 766.1×10^2

19) $67.7 \div 10^1$

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Answers

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20) 53.2×10^3

Answers

1. **0.65866**

2. **652,000**

3. **0.99**

4. **27.5**

5. **0.002572**

6. **84,000**

7. **6.8839**

8. **9,591.6**

9. **0.8896**

10. **574.7**

11. **44.685**

12. **521.82**

13. **0.000432**

14. **959.1**

15. **0.076461**

16. **4,388.93**

17. **0.0839616**

18. **76,610**

19. **6.77**

20. **53,200**



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1) $8.416 \div 10^3$

2) 45.7×10^2

3) $4.38 \div 10^3$

4) 19.32×10^1

5) $4.7 \div 10^2$

6) 42.88×10^3

7) $7.3 \div 10^3$

8) 4.67×10^1

9) $1.5 \div 10^3$

10) 43.449×10^3

11) $726.191 \div 10^2$

12) 37.7×10^2

13) $6.399 \div 10^3$

14) 146.4×10^1

15) $75.54 \div 10^2$

16) 5.989×10^2

17) $4.621 \div 10^3$

18) 58.858×10^1

19) $5.7 \div 10^4$

20) 74.348×10^1

Answers

1. _____

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Answers

1. **0.008416**

2. **4,570**

3. **0.00438**

4. **193.2**

5. **0.047**

6. **42,880**

7. **0.0073**

8. **46.7**

9. **0.0015**

10. **43,449**

11. **7.26191**

12. **3,770**

13. **0.006399**

14. **1,464**

15. **0.7554**

16. **598.9**

17. **0.004621**

18. **588.58**

19. **0.00057**

20. **743.48**



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

1) $823.3 \div 10^2$

2) 741.613×10^4

3) $9.45 \div 10^1$

4) 15.4×10^1

5) $327.144 \div 10^3$

6) 5.8×10^4

7) $4.6 \div 10^1$

8) 855.9×10^1

9) $45.91 \div 10^4$

10) 332.947×10^4

11) $2.9 \div 10^3$

12) 984.465×10^3

13) $9.72 \div 10^1$

14) 6.496×10^1

15) $58.39 \div 10^4$

16) 6.254×10^2

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19) $85.754 \div 10^2$

20) 919.2×10^1

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20) 919.2×10^1

Answers1. **8.233**2. **7,416,130**3. **0.945**4. **154**5. **0.327144**6. **58,000**7. **0.46**8. **8,559**9. **0.004591**10. **3,329,470**11. **0.0029**12. **984,465**13. **0.972**14. **64.96**15. **0.005839**16. **625.4**17. **0.00899**18. **389**19. **0.85754**20. **9,192**



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1) $6.71 \div 10^3$

2) 98.2×10^2

3) $14.264 \div 10^3$

4) 876.75×10^3

5) $579.626 \div 10^2$

6) 423.835×10^4

7) $66.14 \div 10^4$

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Answers**0.00671****9,820****0.014264****876,750****5.79626****4,238,350****0.006614****98,690****0.00217****92.71****7.51198****34.9****6.6343****150****4.373****79.89****0.0001946****4,370****0.34948****14,512**



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1) $52.263 \div 10^4$

2) 5.77×10^3

3) $15.632 \div 10^1$

4) 76.317×10^4

5) $385.7 \div 10^4$

6) 94.95×10^3

7) $2.442 \div 10^4$

8) 185.855×10^3

9) $85.7 \div 10^1$

10) 88.879×10^1

11) $5.653 \div 10^3$

12) 6.6×10^3

13) $319.723 \div 10^3$

14) 7.8×10^2

15) $7.477 \div 10^2$

16) 7.146×10^3

17) $26.5 \div 10^4$

18) 85.166×10^4

19) $139.64 \div 10^4$

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Answers

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5) $385.7 \div 10^4$

6) 94.95×10^3

7) $2.442 \div 10^4$

8) 185.855×10^3

9) $85.7 \div 10^1$

10) 88.879×10^1

11) $5.653 \div 10^3$

12) 6.6×10^3

13) $319.723 \div 10^3$

14) 7.8×10^2

15) $7.477 \div 10^2$

16) 7.146×10^3

17) $26.5 \div 10^4$

18) 85.166×10^4

19) $139.64 \div 10^4$

20) 5.14×10^1

Answers1. **0.0052263**2. **5,770**3. **1.5632**4. **763,170**5. **0.03857**6. **94,950**7. **0.0002442**8. **185,855**9. **8.57**10. **888.79**11. **0.005653**12. **6,600**13. **0.319723**14. **780**15. **0.07477**16. **7,146**17. **0.00265**18. **851,660**19. **0.013964**20. **51.4**



Multiplying and Dividing Powers of Ten

Name: _____

Solve each problem.

$$5.47 \times 10^4$$

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.

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

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

$$2.36 \div 10^2$$

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

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

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

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

1) $647.13 \div 10^1$

2) 2.614×10^1

3) $229.455 \div 10^2$

4) 5.6×10^2

5) $6.414 \div 10^1$

6) 762.4×10^4

7) $3.5 \div 10^4$

8) 1.617×10^2

9) $82.1 \div 10^4$

10) 117.94×10^4

11) $742.43 \div 10^3$

12) 186.9×10^1

13) $91.326 \div 10^2$

14) 419.42×10^4

15) $553.88 \div 10^3$

16) 47.66×10^2

17) $4.53 \div 10^3$

18) 762.319×10^4

19) $3.586 \div 10^3$

20) 324.2×10^2

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

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10. _____

11. _____

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16. _____

17. _____

18. _____

19. _____

20. _____



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16) 47.66×10^2

17) $4.53 \div 10^3$

18) 762.319×10^4

19) $3.586 \div 10^3$

20) 324.2×10^2

Answers**64.713****26.14****2.29455****560****0.6414****7,624,000****0.00035****161.7****0.00821****1,179,400****0.74243****1,869****0.91326****4,194,200****0.55388****4,766****0.00453****7,623,190****0.003586****32,420**



Multiplying and Dividing Powers of Ten

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

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

1) $7.4 \div 10^2$

2) 83.5×10^2

3) $125.97 \div 10^2$

4) 86.9×10^1

5) $2.716 \div 10^3$

6) 837.31×10^1

7) $9.3 \div 10^4$

8) 91.633×10^4

9) $919.16 \div 10^3$

10) 435.1×10^2

11) $42.833 \div 10^4$

12) 731.9×10^3

13) $4.71 \div 10^4$

14) 3.35×10^4

15) $328.96 \div 10^4$

16) 698.218×10^1

17) $59.738 \div 10^3$

18) 48.4×10^2

19) $2.2 \div 10^3$

20) 6.32×10^1

Answers

1. _____
2. _____
3. _____
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10. _____
11. _____
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13. _____
14. _____
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Solve each problem.

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

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7) $9.3 \div 10^4$

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9) $919.16 \div 10^3$

10) 435.1×10^2

11) $42.833 \div 10^4$

12) 731.9×10^3

13) $4.71 \div 10^4$

14) 3.35×10^4

15) $328.96 \div 10^4$

16) 698.218×10^1

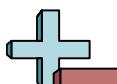
17) $59.738 \div 10^3$

18) 48.4×10^2

19) $2.2 \div 10^3$

20) 6.32×10^1

Answers1. **0.074**2. **8,350**3. **1.2597**4. **869**5. **0.002716**6. **8,373.1**7. **0.00093**8. **916,330**9. **0.91916**10. **43,510**11. **0.0042833**12. **731,900**13. **0.000471**14. **33,500**15. **0.032896**16. **6,982.18**17. **0.059738**18. **4,840**19. **0.0022**20. **63.2**



Multiplying and Dividing Powers of Ten

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Solve each problem.

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

1) $83.48 \div 10^1$

2) 41.438×10^3

3) $16.2 \div 10^4$

4) 35.6×10^2

5) $933.115 \div 10^3$

6) 2.7×10^3

7) $668.48 \div 10^2$

8) 28.524×10^2

9) $9.2 \div 10^2$

10) 434.49×10^1

11) $764.91 \div 10^1$

12) 484.897×10^4

13) $1.26 \div 10^4$

14) 156.293×10^2

15) $299.5 \div 10^4$

16) 82.451×10^3

17) $17.8 \div 10^4$

18) 539.98×10^2

19) $74.227 \div 10^2$

20) 737.3×10^4

Answers

1. _____

2. _____

3. _____

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11. _____

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13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____



Solve each problem.

$$5.47 \times 10^4$$

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.

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

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

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2) 41.438×10^3

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16) 82.451×10^3

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18) 539.98×10^2

19) $74.227 \div 10^2$

20) 737.3×10^4

Answers1. **8.348**2. **41,438**3. **0.00162**4. **3,560**5. **0.933115**6. **2,700**7. **6.6848**8. **2,852.4**9. **0.092**10. **4,344.9**11. **76.491**12. **4,848,970**13. **0.000126**14. **15,629.3**15. **0.02995**16. **82,451**17. **0.00178**18. **53,998**19. **0.74227**20. **7,373,000**