



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) $357.45 \div 10^4$

2) 35.487×10^4

3) $235.85 \div 10^3$

4) 46.97×10^3

5) $7.354 \div 10^2$

6) 1.8×10^4

7) $98.8 \div 10^3$

8) 86.115×10^4

9) $257.68 \div 10^1$

10) 7.9×10^4

11) $66.27 \div 10^2$

12) 2.41×10^2

13) $39.7 \div 10^2$

14) 998.951×10^3

15) $586.9 \div 10^1$

16) 9.335×10^4

17) $5.2 \div 10^2$

18) 26.3×10^2

19) $382.9 \div 10^3$

20) 878.8×10^3

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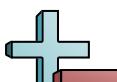
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$$2.36 \div 10^2$$

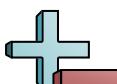
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$\underline{0}\,\underline{2}\,\underline{3}\,\underline{6}$

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

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

Answers1. **0.035745**2. **354,870**3. **0.23585**4. **46,970**5. **0.07354**6. **18,000**7. **0.0988**8. **861,150**9. **25.768**10. **79,000**11. **0.6627**12. **241**13. **0.397**14. **998,951**15. **58.69**16. **93,350**17. **0.052**18. **2,630**19. **0.3829**20. **878,800**



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

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

1) $3.665 \div 10^3$

2) 327.18×10^3

3) $89.2 \div 10^4$

4) 35.8×10^4

5) $78.721 \div 10^1$

6) 651.599×10^4

7) $73.44 \div 10^3$

8) 2.35×10^4

9) $14.9 \div 10^3$

10) 5.96×10^1

11) $83.3 \div 10^3$

12) 964.998×10^3

13) $56.489 \div 10^1$

14) 634.51×10^4

15) $283.52 \div 10^1$

16) 5.45×10^1

17) $41.4 \div 10^2$

18) 72.4×10^3

19) $1.279 \div 10^3$

20) 863.687×10^4

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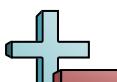
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5 4 7 0 0.

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

.0 2 3 6

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

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

Answers

1) $3.665 \div 10^3$

2) 327.18×10^3

0.003665

3) $89.2 \div 10^4$

4) 35.8×10^4

327,180

5) $78.721 \div 10^1$

6) 651.599×10^4

0.00892

7) $73.44 \div 10^3$

8) 2.35×10^4

358,000

9) $14.9 \div 10^3$

10) 5.96×10^1

7.8721

11) $83.3 \div 10^3$

12) 964.998×10^3

6,515,990

13) $56.489 \div 10^1$

14) 634.51×10^4

0.07344

15) $283.52 \div 10^1$

16) 5.45×10^1

23,500

17) $41.4 \div 10^2$

18) 72.4×10^3

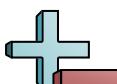
0.0149

19) $1.279 \div 10^3$

20) 863.687×10^4

59.6**0.0833****964,998****5.6489****6,345,100****28.352****54.5****0.414****72,400****0.001279****8,636,870**

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0



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

1) $55.2 \div 10^3$

2) 8.79×10^1

3) $3.283 \div 10^2$

4) 5.3×10^2

5) $729.3 \div 10^4$

6) 8.539×10^4

7) $392.4 \div 10^4$

8) 77.75×10^3

9) $33.623 \div 10^4$

10) 9.231×10^1

11) $5.83 \div 10^4$

12) 8.439×10^2

13) $93.442 \div 10^4$

14) 39.823×10^4

15) $68.3 \div 10^4$

16) 8.172×10^3

17) $93.78 \div 10^3$

18) 982.5×10^1

19) $331.69 \div 10^1$

20) 731.559×10^1

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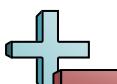
5.47 × 10⁴
 This is the same as saying:
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 $5\ 4\ 7\ 0\ 0$.
 $5.47 \times 10^4 = 54,700$

2.36 ÷ 10²
 Division is the same way. Only instead of moving the decimal right, you move it left.
 $\underline{.0\ 2\ 3\ 6}$
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 $2.36 \times 10^{-2} = 2.36 \div 10^2$

Answers

1. **0.0552**
2. **87.9**
3. **0.03283**
4. **530**
5. **0.07293**
6. **85,390**
7. **0.03924**
8. **77,750**
9. **0.0033623**
10. **92.31**
11. **0.000583**
12. **843.9**
13. **0.0093442**
14. **398,230**
15. **0.00683**
16. **8,172**
17. **0.09378**
18. **9,825**
19. **33.169**
20. **7,315.59**

- 1) $55.2 \div 10^3$
- 2) 8.79×10^1
- 3) $3.283 \div 10^2$
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$$2.36 \times 10^{-2} = 2.36 \div 10^2$$

1) $997.3 \div 10^4$

2) 556.5×10^3

3) $348.5 \div 10^4$

4) 19.933×10^1

5) $345.251 \div 10^3$

6) 62.6×10^4

7) $1.7 \div 10^3$

8) 49.8×10^3

9) $291.193 \div 10^3$

10) 226.923×10^3

11) $6.78 \div 10^2$

12) 9.296×10^1

13) $938.23 \div 10^4$

14) 65.159×10^1

15) $26.42 \div 10^4$

16) 25.9×10^4

17) $6.184 \div 10^4$

18) 949.17×10^2

19) $928.5 \div 10^4$

20) 3.1×10^1

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Answers

1. **0.09973**
2. **556,500**
3. **0.03485**
4. **199.33**
5. **0.345251**
6. **626,000**
7. **0.0017**
8. **49,800**
9. **0.291193**
10. **226,923**
11. **0.0678**
12. **92.96**
13. **0.093823**
14. **651.59**
15. **0.002642**
16. **259,000**
17. **0.0006184**
18. **94,917**
19. **0.09285**
20. **31**

1) $997.3 \div 10^4$

2) 556.5×10^3

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4) 19.933×10^1

5) $345.251 \div 10^3$

6) 62.6×10^4

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

1) $77.73 \div 10^4$

2) 2.374×10^1

3) $43.12 \div 10^2$

4) 356.86×10^2

5) $86.5 \div 10^2$

6) 311.596×10^3

7) $1.97 \div 10^3$

8) 551.89×10^3

9) $22.4 \div 10^3$

10) 4.657×10^4

11) $186.8 \div 10^4$

12) 99.7×10^1

13) $17.66 \div 10^4$

14) 948.995×10^2

15) $15.9 \div 10^4$

16) 2.8×10^4

17) $3.125 \div 10^4$

18) 8.93×10^3

19) $286.9 \div 10^1$

20) 844.267×10^4

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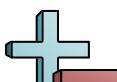
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Answers

- | | |
|-----|------------------|
| 1. | 0.007773 |
| 2. | 23.74 |
| 3. | 0.4312 |
| 4. | 35,686 |
| 5. | 0.865 |
| 6. | 311,596 |
| 7. | 0.00197 |
| 8. | 551,890 |
| 9. | 0.0224 |
| 10. | 46,570 |
| 11. | 0.01868 |
| 12. | 997 |
| 13. | 0.001766 |
| 14. | 94,899.5 |
| 15. | 0.00159 |
| 16. | 28,000 |
| 17. | 0.0003125 |
| 18. | 8,930 |
| 19. | 28.69 |
| 20. | 8,442,670 |
- 1) $77.73 \div 10^4$ 2) 2.374×10^1
 3) $43.12 \div 10^2$ 4) 356.86×10^2
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1) $3.96 \div 10^3$

2) 199.792×10^1

3) $599.758 \div 10^3$

4) 5.37×10^1

5) $35.4 \div 10^2$

6) 77.491×10^1

7) $299.69 \div 10^2$

8) 3.6×10^2

9) $5.24 \div 10^1$

10) 648.525×10^2

11) $31.115 \div 10^1$

12) 8.24×10^4

13) $312.5 \div 10^4$

14) 27.11×10^1

15) $91.5 \div 10^1$

16) 6.189×10^1

17) $61.424 \div 10^3$

18) 54.329×10^2

19) $772.19 \div 10^3$

20) 35.392×10^4

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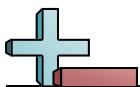
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Answers**0.00396****1,997.92****0.599758****53.7****0.354****774.91****2.9969****360****0.524****64,852.5****3.1115****82,400****0.03125****271.1****9.15****61.89****0.061424****5,432.9****0.77219****353,920**

- 1) $3.96 \div 10^3$
- 2) 199.792×10^1
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$$2.36 \times 10^{-2} = 2.36 \div 10^2$$

1) $743.6 \div 10^3$

2) 551.958×10^4

3) $75.675 \div 10^4$

4) 5.3×10^2

5) $3.3 \div 10^2$

6) 36.2×10^1

7) $233.556 \div 10^3$

8) 992.84×10^2

9) $538.1 \div 10^4$

10) 828.3×10^2

11) $7.2 \div 10^1$

12) 89.565×10^1

13) $52.55 \div 10^3$

14) 21.45×10^4

15) $1.5 \div 10^3$

16) 858.42×10^2

17) $47.315 \div 10^3$

18) 54.57×10^4

19) $432.291 \div 10^3$

20) 678.11×10^3

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

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

5 4 7 0 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.

.0 2 3 6

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

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

1) $743.6 \div 10^3$

2) 551.958×10^4

3) $75.675 \div 10^4$

4) 5.3×10^2

5) $3.3 \div 10^2$

6) 36.2×10^1

7) $233.556 \div 10^3$

8) 992.84×10^2

9) $538.1 \div 10^4$

10) 828.3×10^2

11) $7.2 \div 10^1$

12) 89.565×10^1

13) $52.55 \div 10^3$

14) 21.45×10^4

15) $1.5 \div 10^3$

16) 858.42×10^2

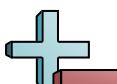
17) $47.315 \div 10^3$

18) 54.57×10^4

19) $432.291 \div 10^3$

20) 678.11×10^3

Answers1. **0.7436**2. **5,519,580**3. **0.0075675**4. **530**5. **0.033**6. **362**7. **0.233556**8. **99,284**9. **0.05381**10. **82,830**11. **0.72**12. **895.65**13. **0.05255**14. **214,500**15. **0.0015**16. **85,842**17. **0.047315**18. **545,700**19. **0.432291**20. **678,110**



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) $27.738 \div 10^2$

2) 899.5×10^3

3) $318.69 \div 10^1$

4) 67.617×10^3

5) $92.26 \div 10^2$

6) 7.29×10^1

7) $255.314 \div 10^1$

8) 597.9×10^4

9) $51.4 \div 10^4$

10) 913.7×10^4

11) $243.6 \div 10^4$

12) 23.47×10^3

13) $467.455 \div 10^4$

14) 1.218×10^1

15) $91.836 \div 10^1$

16) 91.17×10^1

17) $21.1 \div 10^4$

18) 823.725×10^3

19) $919.875 \div 10^4$

20) 83.56×10^2

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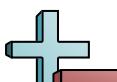
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Solve each problem.

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This is the same as saying:

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

Answers**0.27738****899,500****31.869****67,617****0.9226****72.9****25.5314****5,979,000****0.00514****9,137,000****0.02436****23,470****0.0467455****12.18****9.1836****911.7****0.00211****823,725****0.0919875****8,356**

1) $27.738 \div 10^2$

2) 899.5×10^3

3) $318.69 \div 10^1$

4) 67.617×10^3

5) $92.26 \div 10^2$

6) 7.29×10^1

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

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

1) $6.936 \div 10^4$

2) 66.19×10^1

3) $994.35 \div 10^3$

4) 31.88×10^2

5) $38.257 \div 10^2$

6) 26.537×10^2

7) $46.9 \div 10^4$

8) 151.66×10^3

9) $288.162 \div 10^2$

10) 883.893×10^3

11) $73.7 \div 10^4$

12) 328.9×10^2

13) $335.311 \div 10^3$

14) 895.6×10^3

15) $23.9 \div 10^1$

16) 83.497×10^2

17) $554.883 \div 10^2$

18) 63.259×10^3

19) $1.316 \div 10^2$

20) 7.934×10^2

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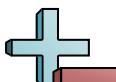
16. _____

17. _____

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$$5.47 \times 10^4$$

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

Answers**0.0006936****661.9****0.99435****3,188****0.38257****2,653.7****0.00469****151,660****2.88162****883,893****0.00737****32,890****0.335311****895,600****2.39****8,349.7****5.54883****63,259****0.01316****793.4**

1) $6.936 \div 10^4$

2) 66.19×10^1

3) $994.35 \div 10^3$

4) 31.88×10^2

5) $38.257 \div 10^2$

6) 26.537×10^2

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15) $23.9 \div 10^1$

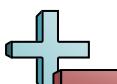
16) 83.497×10^2

17) $554.883 \div 10^2$

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

1) $12.5 \div 10^4$

2) 2.252×10^1

3) $8.93 \div 10^1$

4) 52.8×10^3

5) $6.26 \div 10^1$

6) 699.87×10^2

7) $3.849 \div 10^2$

8) 263.732×10^4

9) $88.381 \div 10^3$

10) 341.861×10^2

11) $377.36 \div 10^2$

12) 2.29×10^3

13) $34.25 \div 10^1$

14) 87.1×10^3

15) $29.24 \div 10^2$

16) 66.374×10^1

17) $972.91 \div 10^4$

18) 6.828×10^2

19) $1.6 \div 10^2$

20) 531.24×10^4

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Solve each problem.

5.47×10^4
 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.
 $5\ 4\ 7\ 0\ 0$.
 $5.47 \times 10^4 = 54,700$

$2.36 \div 10^2$
 Division is the same way. Only instead of moving the decimal right, you move it left.
 $\underline{0}\ 2\ 3\ 6$
 You can also multiply a negative exponent, which means the same thing.
 $2.36 \times 10^{-2} = 2.36 \div 10^2$

Answers

1. **0.00125**
2. **22.52**
3. **0.893**
4. **52,800**
5. **0.626**
6. **69,987**
7. **0.03849**
8. **2,637,320**
9. **0.088381**
10. **34,186.1**
11. **3.7736**
12. **2,290**
13. **3.425**
14. **87,100**
15. **0.2924**
16. **663.74**
17. **0.097291**
18. **682.8**
19. **0.016**
20. **5,312,400**

1) $12.5 \div 10^4$

2) 2.252×10^1

3) $8.93 \div 10^1$

4) 52.8×10^3

5) $6.26 \div 10^1$

6) 699.87×10^2

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