

Fill in the missing place names under the lines.

1. 

100	<b>10</b>	<b>1</b>	·	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1,000}$
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2. 

$10^3$	<b><math>10^2</math></b>	<b><math>10^1</math></b>	<b><math>10^0</math></b>	·	$\frac{1}{10^1}$	$\frac{1}{10^2}$	$\frac{1}{10^3}$
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3. 

<b>100,000</b>	<b>10,000</b>	<b>1,000</b>	100	<b>10</b>	<b>1</b>	·	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1,000}$
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4. 

<b><math>10^4</math></b>	<b><math>10^3</math></b>	<b><math>10^2</math></b>	$10^1$	<b><math>10^0</math></b>	·	$\frac{1}{10^1}$	$\frac{1}{10^2}$	$\frac{1}{10^3}$
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5. 

$10^2$	<b><math>10^1</math></b>	<b><math>10^0</math></b>	·	$\frac{1}{10^1}$	$\frac{1}{10^2}$	$\frac{1}{10^3}$
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Fill in the blanks.

6.  $10^5 = \mathbf{100,000}$
7.  $1,000 = 10^3$
8.  $\frac{1}{100} = \frac{1}{10^2}$
9.  $10^0 = \mathbf{1}$
10.  $100 = 10^2$

Write in exponential notation.

11.  $132.2 = \mathbf{1 \times 10^2 + 3 \times 10^1 + 2 \times 10^0 + 2 \times \frac{1}{10^1}}$
12.  $1,409 = \mathbf{1 \times 10^3 + 4 \times 10^2 + 9 \times 10^0}$
13.  $753.45 = \mathbf{7 \times 10^2 + 5 \times 10^1 + 3 \times 10^0 + 4 \times \frac{1}{10^1} + 5 \times \frac{1}{10^2}}$
14.  $26.984 = \mathbf{2 \times 10^1 + 6 \times 10^0 + 9 \times \frac{1}{10^1} + 8 \times \frac{1}{10^2} + 4 \times \frac{1}{10^3}}$
15.  $3,530.319 = \mathbf{3 \times 10^3 + 5 \times 10^2 + 3 \times 10^1 + 3 \times \frac{1}{10^1} + 1 \times \frac{1}{10^2} + 9 \times \frac{1}{10^3}}$

Write in decimal notation.

16.  $8 \times 10^3 + 4 \times 10^2 + 3 \times 10^0 = \mathbf{8,403}$
17.  $7 \times 10^4 + 6 \times 10^1 + 4 \times \frac{1}{10^2} = \mathbf{70,060.04}$
18.  $5 \times 10^3 + 9 \times 10^2 + 6 \times 10^1 + 2 \times 10^0 = \mathbf{5,962}$
19.  $3 \times 10^3 + 5 \times 10^2 + 3 \times \frac{1}{10^1} + 1 \times \frac{1}{10^2} + 9 \times \frac{1}{10^3} = \mathbf{3,500.319}$
20.  $1 \times 10^4 + 5 \times 10^3 + 7 \times 10^2 + 9 \times 10^1 + 1 \times 10^0 = \mathbf{15,791}$

Fill in the blanks.

21.  $\$6.42 = \mathbf{6}$  dollars and  $\mathbf{4}$  dimes and  $\mathbf{2}$  pennies  
 $= \$6.00 + \mathbf{\$0.40} + \mathbf{\$0.02} = \mathbf{\$6.42}$
22. One hundredth of a dollar is equal to one **penny**.
23.  $\$0.37 = \mathbf{3}$  **dimes** and  $\mathbf{7}$  **pennies**.  
 $= \mathbf{\$0.30} + \mathbf{\$0.07} = \mathbf{\$0.37}$
24. One tenth of a dollar is equal to one **dime**.
25.  $\$7.05 = \mathbf{7}$  dollars and  $\mathbf{0}$  dimes and  $\mathbf{5}$  pennies  
 $= \$7.00 + \mathbf{\$0.00} + \mathbf{\$0.05} = \mathbf{\$7.05}$