

Name: Class:

Divide decimals by powers of ten

1. Divide the following decimal numbers using the index method.

a. $44.965 \div 100 = 44.965 \div 10^2$
 $= 0.44965$

d. $571.39 \div 1,000 =$

b. $39.006 \div 100 =$

e. $6.543 \div 1,000 =$

c. $20.153 \div 10,000 =$

f. $0.00478 \div 10 =$

2. In each case, tick the correct answer.



a. What will be the answer after dividing 347,240,001.59 by 1,000,000 ?

- 3472.4000159 347.24000159 347,240.00159 347.240159

b. What will be the answer after dividing 20,153.721 by 10^4 ?

- 2.0154721 2,015.3721 20.153721 2.0153721 2.153721

c. What will be the answer after dividing 5,824.18 by 10,000 ?

- 0.582418 0.582318 5.82418 582.418 0.0582418

d. What will be the answer after dividing 2,878.3 by 10^3 ?

- 0.28783 20.8783 2.8783 0.028783 28.783

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1. Divide the following decimal numbers using the index method.

$$\begin{aligned} \text{a. } 44.965 \div 100 &= 44.965 \div 10^2 \\ &= 0.44965 \end{aligned}$$

$$\begin{aligned} \text{d. } 571.39 \div 1,000 &= 571.39 \div 10^3 \\ &= 0.57139 \end{aligned}$$

$$\begin{aligned} \text{b. } 39.006 \div 100 &= 39.006 \div 10^2 \\ &= 0.39006 \end{aligned}$$

$$\begin{aligned} \text{e. } 6.543 \div 1,000 &= 6.543 \div 10^3 \\ &= 0.006543 \end{aligned}$$

$$\begin{aligned} \text{c. } 20.153 \div 10,000 &= 20.153 \div 10^4 \\ &= 0.0020153 \end{aligned}$$

$$\begin{aligned} \text{f. } 0.00478 \div 10 &= 0.00478 \div 10^1 \\ &= 0.000478 \end{aligned}$$

2. In each case, tick the correct answer.



a. What will be the answer after dividing 347,240,001.59 by 1,000,000 ?

- 3472.4000159
 347.24000159
 347,240.00159
 347.240159

b. What will be the answer after dividing 20,153.721 by 10^4 ?

- 2.0154721
 2,015.3721
 20.153721
 2.0153721
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c. What will be the answer after dividing 5,824.18 by 10,000 ?

- 0.582418
 0.582318
 5.82418
 582.418
 0.0582418

d. What will be the answer after dividing 2,878.3 by 10^3 ?

- 0.28783
 20.8783
 2.8783
 0.028783
 28.783