

APPLYING THE STANDARD

How might this standard appear on a test?



CHECK OUT MY
WORKED EXAMPLE #10

1) Match each expression to its solution by drawing a line between them.

- a) 0.356×10^2 b) $356 \div 10^2$ c) 0.356×10^3 d) 0.356×10^4 e) $356 \div 10^4$

3.56

35.6

3,560

0.0356

356

2) Fill in each product. Explain the pattern you see between the powers of 10 and the number of zeros in each whole-number product.

$49 \times 1 =$ _____

$49 \times 10^1 =$ _____

$49 \times 10^2 =$ _____

$49 \times 10^3 =$ _____

3) Fill in each product. Explain the pattern you see between the powers of 10 and the placement of the decimal in each product.

$0.635 \times 1 =$ _____

$0.635 \times 10^1 =$ _____

$0.635 \times 10^2 =$ _____

$0.635 \times 10^3 =$ _____

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4) Fill in the missing power of 10 so that each number sentence is true.

$32 \times \underline{\hspace{2cm}} = 32,000$

$4.7 \div \underline{\hspace{2cm}} = 0.047$

$68 \div \underline{\hspace{2cm}} = 0.0068$

$96 \times \underline{\hspace{2cm}} = 960$

$2.5 \times \underline{\hspace{2cm}} = 2,500$

$814 \div \underline{\hspace{2cm}} = 0.000814$

5) Fill in the missing number so that each number sentence is true.

$\underline{\hspace{2cm}} \times 10^3 = 2,100$

$\underline{\hspace{2cm}} \div 10^4 = 0.0005$

$\underline{\hspace{2cm}} \div 10^5 = 0.0035$

$\underline{\hspace{2cm}} \times 10^4 = 76,000$

$\underline{\hspace{2cm}} \times 10^3 = 3,000$

$\underline{\hspace{2cm}} \div 10^2 = 140$

6) Gustavo earned \$15.25 a day playing his guitar at La Playa Grill. How much will Gustavo earn if he plays:

a) 10 days in one month? _____

b) 10 days a month for 10 months? _____

c) 10 days a month for 10 months for 10 years? _____





THE POWER OF 10!

Assuming you were alive the whole time, what might you have been doing?

Dr. Vector is excited about the prospect of the new time travel device and knows that, in addition to traveling back to the past, it could also one day be used to travel into the future. So Dr. Vector created a new exercise looking into the future, but this time the power of 10 represents *seconds*.

Complete the time travel exercise. Record what you might be doing at that moment in the future and/or your thoughts on what the world might be like.

5.NBT.A.2
About this standard
 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

Doctor Vector's "Journey of the Mind" Time Travel Exercise		
	Number of seconds into the future	Description of where you might be, what you might be doing, or what might be happening in the world
	10^9	
	10^{10}	
	10^{11}	