

Exponents Check for Understanding

A 15 question retrieval quiz for students in grades 5 and 6.

Grades 5 and 6

Check for Understanding | 5th and 6th Grade | Exponents

Questions

Name: Date:	Class: Score:				
1 Write 1,000,000 as a product of t	tens.				
	Answer				
2 Write 10 x 10 x 10 x 10 x 10 x 10	0 x 10 in exponential form.				
	Answer				
3 Write 10 ⁵ in expanded form.					
	Answer				
4 Solve 2.4 x 1,000.					
	Answer				

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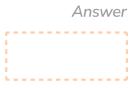
5	An African elephant weighs 13,000 lbs. A white tailed delement than the deer?	er weighs 130 lbs.
		Answer
6	Solve 10.1 x 10 ⁷ .	
		Answer
7	Solve 19,000,000 ÷ 10³.	Answer
8	Write 23 ⁴ in expanded form.	<u></u>
		Answer
9	Write $(\frac{3}{4})^2 \times 9^6$ in expanded form.	
		Answer

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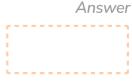
10 Rewrite $3 \times 3 \times 3 \times 3$ in exponential form.

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16.	_	_		_		_	_				_	_	_	

11 Rewrite $12 \times 12 \times 8 \times 12$ in exponential form.



Rewrite $\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times 5 \times 5$ in exponential form.



13 Solve 4⁶.



14 Solve 7³ x 2².



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15 Solve $(\frac{2}{9})^3$.

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Answers

Question number	Question	Answers	Standard
1	Write 1,000,000 as a product of tens.	10 × 10 × 10 × 10 × 10 × 10	5.NBT.A.2
2	Write $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$ in exponential form.	107	5.NBT.A.2
3	Write 10⁵ in expanded form.	10 x 10 x 10 x 10 x 10	5.NBT.A.2
4	Solve 2.4 x 1,000.	2,400	5.NBT.A.2
5	An African elephant weighs 13,000 lbs. A white tailed deer weighs 130 lbs. How many times larger is the elephant than the deer?	100 times larger	5.NBT.A.2
6	Solve 10.1 x 10 ⁷ .	101,000,000	5.NBT.A.2
7	Solve 19,000,000 ÷ 10³.	19,000	5.NBT.A.2
8	Write 23 ⁴ in expanded form.	23 x 23 x 23 x 23	6.EE.A.1
9	Write $(\frac{3}{4})^2 \times 9^6$ in expanded form.	3 4 x 4 x 9 x 9 x 9 x 9 x 9 x 9	6.EE.A.1
10	Rewrite $3 \times 3 \times 3 \times 3$ in exponential form.	34	6.EE.A.1
11	Rewrite $12 \times 12 \times 8 \times 12$ in exponential form.	8 x 12³	6.EE.A.1
12	Rewrite $\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times 5 \times 5$ in exponential form.	$(\frac{2}{3})^3 \times 5^2$	6.EE.A.1

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Question number	Question	Answers	Standard
13	Solve 4 ⁶ .	4,096	6.EE.A.1
14	Solve 7³ x 2².	1,372	6.EE.A.1
15	Solve $(\frac{2}{9})^3$.	<u>8</u> 729	6.EE.A.1

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