THIRD SPACE
LEARNING

Exponents Check for Understanding

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

Grades 5 and 6

Questions

Name: ……………………………………….   Class: ……………………………………….
Date: ……………………………………….   Score: ……………………………………….

1   Write 1,000,000 as a product of tens.

Answer

2   Write 10 x 10 x 10 x 10 x 10 x 10 x 10 in exponential form.

Answer

3   Write 10^5 in expanded form.

Answer

4   Solve 2.4 x 1,000.

Answer

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?

Answer

6 Solve 10.1×10^7.

Answer

7 Solve $19,000,000 \div 10^3$.

Answer

8 Write 23^4 in expanded form.

Answer

9 Write $(\frac{3}{4})^2 \times 9^6$ in expanded form.

Answer

10 Rewrite 3 x 3 x 3 x 3 in exponential form.

Answer

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11 Rewrite 12 x 12 x 8 x 12 in exponential form.

Answer

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

Answer

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13 Solve 4^6.

Answer

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14 Solve 7^3 x 2^2.

Answer

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

Answer

Answers

Question number	Question	Answers	Standard
1	Write 1,000,000 as a product of tens.	10 x 10 x 10 x 10 x 10 x 10	5.NBT.A.2
2	Write 10 x 10 x 10 x 10 x 10 x 10 x 10 in exponential form.	10^7	5.NBT.A.2
3	Write 10^5 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 ÷ 10^3.	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 $(\frac{3}{4})^2$ x 9^6 in expanded form.	$\frac{3}{4}$ x $\frac{3}{4}$ x 9 x 9 x 9 x 9 x 9 x 9	6.EE.A.1
10	Rewrite 3 x 3 x 3 x 3 in exponential form.	3^4	6.EE.A.1
11	Rewrite 12 x 12 x 8 x 12 in exponential form.	8 x 12^3	6.EE.A.1
12	Rewrite $\frac{2}{3}$ x $\frac{2}{3}$ x $\frac{2}{3}$ x 5 x 5 in exponential form.	$(\frac{2}{3})^3$ x 5^2	6.EE.A.1

Question number	Question	Answers	Standard
13	Solve 4^6.	4,096	6.EE.A.1
14	Solve $7^3 \times 2^2$.	1,372	6.EE.A.1
15	Solve $(\frac{2}{9})^3$.	$\frac{8}{729}$	6.EE.A.1

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💻 thirdspacelearning.com/us/

📞 +1 929-298-4593

✉️ hello@thirdspacelearning.com

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