

6.EE.1

Name: _____

Evaluate the following expressions:

1. $2.3^2 =$ _____

6. $\left(\frac{1}{7}\right)^4 =$ _____

2. $5^7 =$ _____

7. $4^5 =$ _____

3. $8.4^2 =$ _____

8. $\left(\frac{1}{10}\right)^6 =$ _____

4. $\left(\frac{1}{3}\right)^3 =$ _____

9. $6.2^2 =$ _____

5. $2.9^3 =$ _____

10. $\left(\frac{1}{6}\right)^4 =$ _____

Write the numerical expressions using exponential notation:

11. $8 \times 8 \times 8 \times 8 \times 8 =$ _____

12. $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} =$ _____

13. $6.4 \times 6.4 \times 6.4 \times 6.4 =$ _____

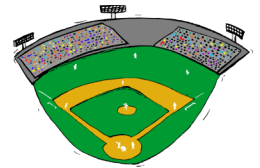
14. $10 \times 10 \times 10 \times 10 \times 10 =$ _____

15. $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} =$ _____

16. Sweet Bean Candies sold 12^4 chocolates during the first hour it was open on Saturday. How many chocolates did they sell?



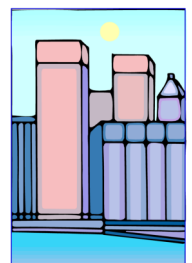
17. Attendance at the baseball game between the Pirates and the Cardinals was 6^6 . How many people came to watch the game?



18. In December it snowed 3 inches. In January that amount was tripled. In February it was tripled again. Express how much it snowed using exponential notation.



19. The tallest building in the city is 6^3 meters tall. How many meters tall is the building?



20. Ben was counting the population of birds at the park. He counted ten in March. There were 10 times as many in April, and 10 times that in May. In June, there were 10 times as many birds as there had been in May, and in July there were 10 times as many as there had been in June.



6.EE.1

Name: _____

Evaluate the following expressions:

1. $2.3^2 = \underline{5.29}$

6. $\left(\frac{1}{7}\right)^4 = \underline{\frac{1}{2,401}}$

2. $5^7 = \underline{78,125}$

7. $4^5 = \underline{1,024}$

3. $8.4^2 = \underline{70.56}$

8. $\left(\frac{1}{10}\right)^6 = \underline{\frac{1}{1,000,000}}$

4. $\left(\frac{1}{3}\right)^3 = \underline{\frac{1}{27}}$

9. $6.2^2 = \underline{38.44}$

5. $2.9^3 = \underline{24.389}$

10. $\left(\frac{1}{6}\right)^4 = \underline{\frac{1}{1,296}}$

Write the numerical expressions using exponential notation:

11. $8 \times 8 \times 8 \times 8 \times 8 = \underline{8^5}$

12. $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} = \underline{\left(\frac{1}{5}\right)^3}$

13. $6.4 \times 6.4 \times 6.4 \times 6.4 = \underline{6.4^4}$

14. $10 \times 10 \times 10 \times 10 \times 10 = \underline{10^5}$

15. $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} = \underline{\left(\frac{1}{4}\right)^5}$

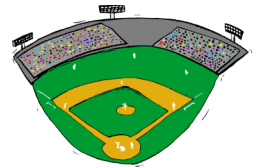
16. Sweet Bean Candies sold 12^4 chocolates during the first hour it was open on Saturday. How many chocolates did they sell?

20,736 chocolates



17. Attendance at the baseball game between the Pirates and the Cardinals was 6^6 . How many people came to watch the game?

46,656 people



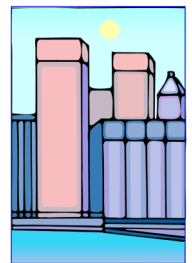
18. In December it snowed 3 inches. In January that amount was tripled. In February it was tripled again. Express how much it snowed using exponential notation.

3^3 inches of snow



19. The tallest building in the city is 6^3 meters tall. How many meters tall is the building?

216 meters



20. Ben was counting the population of birds at the park. He counted ten in March. There were 10 times as many in April, and 10 times that in May. In June, there were 10 times as many birds as there had been in May, and in July there were 10 times as many as there had been in June.

10^5 birds

