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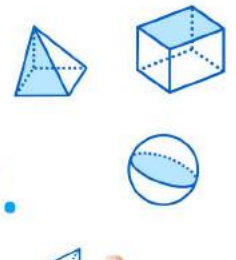

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5th Grade Exponents Worksheets

1. Use <, > or = sign to compare the values.
   a) 3^4 ____ 4^3
   b) 3^0 _____ 0^3
2. Rewrite the following expressions using exponents:
   a) $11 \times 11 \times 11 \times 11$
   b) $60 \times 60 \times 60 \times 60 \times 60 \times 60$
3. Find the value of $6^{-1} \times 1^{-6}$.
4. Rewrite the following exponents using repeated multiplication and evaluate their values:
   a) 4^3
   b) 2^4
5. If the number of adults in a city is 10^3 and the number of children is 7^3. Find out the sum of number of adults and children in the city.
6. Understand the pattern of the number of Covid patients in a town in a week and fill the missing information in the table below:

Day	Number of Patients	Exponent Form	Expanded Form
1	5	(a)_____	5
2	25	5^2	(b)_____
3	125	(c)_____	$5 \times 5 \times 5$
4	(d)_____	5^4	(e)_____

7. Write the missing value.

$$3000 = 2^{\square} \times 3 \times 5^{\square}$$

8. Evaluate: $((2^{1})^{2})^{3}$

9. Jenny has taken a loan of $200 with a condition that she has to pay $2 in first year, $4 in second year, $8 in third year and so on continuously for seven years. Find the the interest paid by Jenny on $200 after 7 years?

[Hint: Interest will be the extra amount she would be paying over $200]

10. Rewrite the expression (6 × 6 × 6 × 6 × 7 × 7) - (4 × 4 × 4 × 5 × 5 × 5) in exponential form.

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- Kirk Riley

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- Barbara Cabrera

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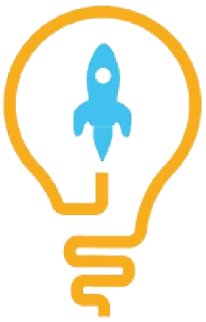

ANSWERS

1)	a) >, b) >
2)	a) 11^4 , b) 60^6
3)	$\frac{1}{6}$ or $(6)^{-1}$
4)	a) 4×4×4= 64 b) 2×2×2×2=16
5)	1343
6)	a) 5^1 , b) 5×5, c) 5^3 , d) 625, e) 5×5×5×5
7)	3, 3
8)	64
9)	$54
10)	$(6^4 \times 7^2)-(4^3 \times 5^3)$