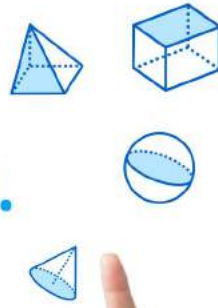


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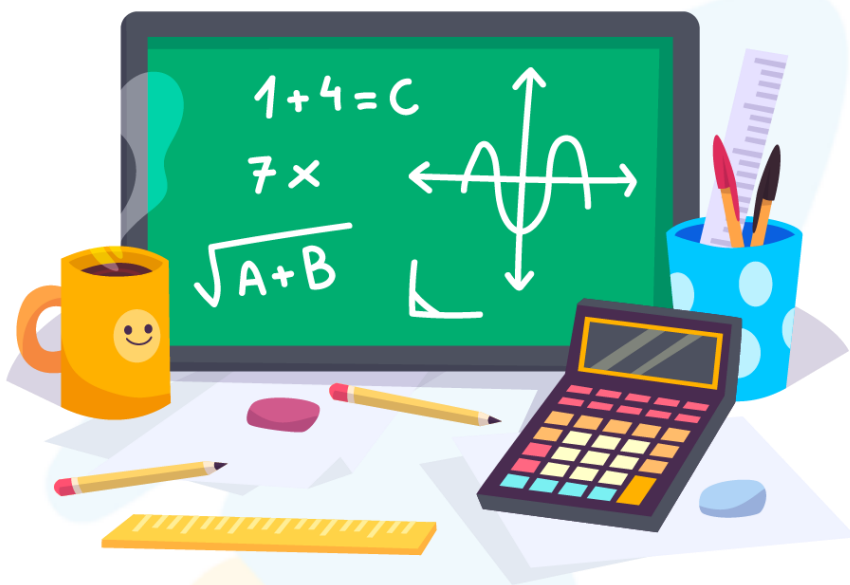
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POWERS AND EXPONENTS WORKSHEETS

- Express $2 \times 128 \times 32 \times 16$ as an exponent of the number 2.
- Solve for x: $18^{10} = 3^{20}x^5$.
(a) 4 (b) 8 (c) 12 (d) 16
- Find the value of $-1/(-8)^2$.



- Solve $(5/4)^9 \times (16/25)^{-6}$
- $3^4 - 5^2 = 7 \times 2^a$. Find the value of a.
(a) 2 (b) 3 (c) 5 (d) 6
- Express the given number as an exponent of its prime factors. $1728 = \underline{\hspace{2cm}}$.
- Simplify $(4x^4)^6 / (2x^5)^4$.
- Express 5^{40} to the base of 25.
- Express the below expression as a single base and an exponent.
 $16 \times 8 \times 4^3 = \underline{\hspace{2cm}}$.
- Simplify $(4^9 \times 3^8 \times 5^{12}) / (64^2 \times 25^3 \times 27^2)$.

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	2^{17}
2)	(a) 4
3)	$-1/64$
4)	$(5/4)^{21}$
5)	(b) 3
6)	$2^6 \times 3^3$

7)	$2^8 \times 4$
8)	$25^2 \circ$
9)	2^{1^3}
10)	$4^3 \times 3^2 \times 5^6$