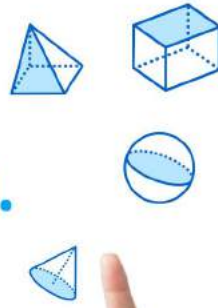


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Prime Factorization Worksheet

Select the correct product of its prime factors for each number.

$2 \times 3 \times 7$

$2 \times 2 \times 3 \times 3 \times 5$

$2 \times 5 \times 5 \times 7$

$2 \times 3 \times 5$

$2 \times 2 \times 11$

$3 \times 3 \times 5$

$2 \times 2 \times 2 \times 5$

$2 \times 3 \times 11$

$2 \times 3 \times 3 \times 5$

$2 \times 2 \times 3 \times 5$

A. $90 = \dots\dots\dots$

B. $45 = \dots\dots\dots$

C. $66 = \dots\dots\dots$

D. $30 = \dots\dots\dots$

E. $180 = \dots\dots\dots$

Factor the following numbers. Is the number prime?

6. 40 - _____

7. 27 - _____

8. 9 - _____

9. 124 - _____

10. Use the factor tree to find the prime factors of the given numbers.

a.	$36 = 4 \times 9$ $= \square \times \square \times \square \times \square$
b.	$48 = 4 \times 12$ $= \square \times \square \times \square \times \square$ $= \square \times \square \times \square \times \square \times \square$
c.	$56 = 7 \times \square$ $= \square \times \square \times \square$ $= \square \times \square \times \square \times \square$

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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.	$2 \times 3 \times 3 \times 5$
2.	$3 \times 3 \times 5$
3.	$2 \times 3 \times 11$
4.	$2 \times 3 \times 5$
5.	$5 \times 2 \times 2 \times 3 \times 3$
6.	$2 \times 2 \times 2 \times 5$
7.	$3 \times 3 \times 3$
8.	3×3
9.	$2 \times 2 \times 31$
10.	a. $2 \times 2 \times 3 \times 3$ b. $2 \times 2 \times 2 \times 2 \times 3$ c. $2 \times 2 \times 2 \times 7$

FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

