

Write the prime factorisation of a number to 100

NAME	DATE	SCORE / 10
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- 1** Use exponents for repeated factors. Write 64 as a product of prime factors.

- 2** Leo says the prime factorization of 54 is 2×27 . Is Leo right?

☐ No, it is 2×3^3 ☐ Yes, Leo is right ☐ No, it is 2×3^2

- 3** Use exponents for repeated factors. Write 44 as a product of prime factors.

- 4** Noah says the prime factorization of 40 is $2^2 \times 5$. Is Noah right?

☐ No, it is 8×5 ☐ No, it is $2^3 \times 5$ ☐ Yes, Noah is right

- 5** Use exponents for repeated factors. Write 27 as a product of prime factors.

- 6** Cleo says the prime factorization of 52 is 2×13 . Is Cleo right?

☐ No, it is $2^2 \times 13$ ☐ Yes, Cleo is right ☐ No, it is 4×13

- 7** Use exponents for repeated factors. Write 90 as a product of prime factors.

8

Ivy says the prime factorization of 56 is $2^3 \times 7$. Is Ivy right?

- ☐ No, it is $2^2 \times 7$ ☐ Yes, Ivy is right ☐ No, it is 8×7
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9

Use exponents for repeated factors. Write 36 as a product of prime factors.

10

Ivy says the prime factorization of 80 is $2^3 \times 5$. Is Ivy right?

- ☐ No, it is $2^4 \times 5$ ☐ No, it is 16×5 ☐ Yes, Ivy is right

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1 2^2

3 $2^2 \times 11$

5 3^3

7 $2 \times 3^2 \times 5$

9 $2^2 \times 3^2$

2 No, it is 2×3^3

4 No, it is $2^3 \times 5$

6 No, it is $2^2 \times 13$

8 Yes, Ivy is right

10 No, it is $2^2 \times 5$