

Write the prime factorisation of a number to 100

NAME	DATE	SCORE / 10
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- 1** Use exponents for repeated factors. Write 27 as a product of prime factors.

- 2** Noah says the prime factorization of 68 is $2^2 \times 17$. Is Noah right?

☐ No, it is 2×17 ☐ Yes, Noah is right ☐ No, it is 4×17

- 3** Use exponents for repeated factors. Write 68 as a product of prime factors.

- 4** Dev says the prime factorization of 88 is 8×11 . Is Dev right?

☐ No, it is $2^3 \times 11$ ☐ No, it is $2^2 \times 11$ ☐ Yes, Dev is right

- 5** Use exponents for repeated factors. Write 78 as a product of prime factors.

- 6** Dev says the prime factorization of 92 is 4×23 . Is Dev right?

☐ No, it is $2^2 \times 23$ ☐ Yes, Dev is right ☐ No, it is 2×23

- 7** Use exponents for repeated factors. Write 56 as a product of prime factors.

8

Leo says the prime factorization of 60 is $2^2 \times 3 \times 5$. Is Leo right?

☐ Yes, Leo is right ☐ No, it is $2 \times 3 \times 5$ ☐ No, it is $4 \times 3 \times 5$

9

Use exponents for repeated factors. Write 49 as a product of prime factors.

10

Ivy says the prime factorization of 75 is 3×5 . Is Ivy right?

☐ No, it is 3×5^2 ☐ Yes, Ivy is right ☐ No, it is 3×25

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1 3^3

3 $2^2 \times 17$

5 $2 \times 3 \times 13$

7 $2^3 \times 7$

9 7^2

2 Yes, Noah is right

4 No, it is $2^3 \times 11$

6 No, it is $2^2 \times 23$

8 Yes, Leo is right

10 No, it is 3×5^2