

Write the prime factorisation of a number to 100

NAME	DATE	SCORE / 10
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- 1** Use exponents for repeated factors. Write 49 as a product of prime factors.

- 2** Ivy says the prime factorization of 52 is $2^2 \times 13$. Is Ivy right?

☐ No, it is 4×13 ☐ No, it is 2×13 ☐ Yes, Ivy is right

- 3** Use exponents for repeated factors. Write 16 as a product of prime factors.

- 4** Maya says the prime factorization of 45 is 3×5 . Is Maya right?

☐ No, it is 9×5 ☐ No, it is $3^2 \times 5$ ☐ Yes, Maya is right

- 5** Use exponents for repeated factors. Write 12 as a product of prime factors.

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

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

- 7** Use exponents for repeated factors. Write 40 as a product of prime factors.

8

Dev says the prime factorization of 24 is 8×3 . Is Dev right?

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

9

Use exponents for repeated factors. Write 62 as a product of prime factors.

10

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

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

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1 7^2

3 2^2

5 $2^2 \times 3$

7 $2^3 \times 5$

9 2×31

2 Yes, Ivy is right

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

6 No, it is 2×3^3

8 No, it is $2^3 \times 3$

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