


NEGATIVE	Sujeto + had + not + verbo (past participle) + (complemento)	They hadn't eaten anything yet.
INTERROGATIVE	Had + sujeto + verbo (past participle) + (complemento)	Had you ever done bungee jumping?



 Finish the sentences using the past perfect

didn't pass the exams because He hadn't studied a lot

we got to the party they had eaten the cake

was broke because He had taken down the roof

time Lara finally got up because she had slept late



Answer: had the best made

Write the correct verb form that

Verb	Verb form
to be	has been there before
to eat	they haven't eaten anything yet
to go	had gone to the store before

- 1 I didn't want to see her because she had been a bad friend
- 2 When I called for the job it had already
- 3 By the time the film finished John had submitted the plot
- 4 Do you go home after work, I had not visited to my friends

Write the correct form of the past perfect

- 1 By 1995 had he not finish his report.
- 2 By 1996 had she not make 20 phone calls.
- 3 By 1997 had he not sell 1,000 stock shares.
- 4 By 1998 had they not meet with a new client.
- 5 By 1999 had you not learn 1,000,000.
- 6 By 2000 had you not lose everything!

Choose the correct verb from the box below to complete the following sentences.

WAS - COULD - WOULD - LEAVE - FORGET - BE - ESCAPE - GO - GIVE - FIND
 - GET - CHANGE - DO - GO

- 1 When I got to the house, Mary wasn't there. She had already left.
- 2 I didn't recognize my old classmate because she had changed so much.
- 3 I was late for the show last night. By the time we got to the theatre, the movie had already started.
- 4 Yesterday I went on my first plane trip. I was very nervous because I had never flown before.
- 5 I couldn't see much during last winter because I had never seen it before.



...before ... after ...

EXAMPLES

He had been there before.
They hadn't eaten anything yet.
Had you ever done budget jumping?

- ... before ... after ...
- ... before ... after ...
- ... before ... after ...
- ... before ... after ...
- ... before ... after ...
- ... before ... after ...
- ... before ... after ...

Choose the correct verb from the list below to complete the following sentences.

WAS **COULD** **HAD** **COULD** **WAS** **COULD** **WAS** **COULD** **WAS** **COULD** **WAS** **COULD**

- When I got to the house, Mary wasn't there. She had already left.
- I don't recognize my old climber because she had changed so much.
- We were late for the show last night. By the time we got to the theater, the movie had already started.
- Yesterday I went on my first plane trip. I was very nervous because I had never traveled before.
- I couldn't eat much dinner last night because I had eaten such a big lunch.
- I couldn't buy any groceries last night because when I got to the supermarket, it was already closed.
- Last week our teacher gave back the essays we had written the week before.
- The house was quiet when Andrew got home. Everyone had gone to bed.

$$\sqrt[n]{a^m} = a^{\frac{m}{n}} \quad \text{si } a \in \mathbb{R}^+ \text{ y } n \in \mathbb{N}$$

$$\sqrt[n]{a^m} = \sqrt[n]{|a|^m} \cdot \begin{cases} 1 & \text{si } a \geq 0 \\ -1 & \text{si } a < 0 \end{cases}$$

Suma y resta de radicales

Para poder sumar o restar dos radicales cuando son radicales semejantes, es decir, si son radicales con el mismo índice y igual radicando.

$$A \sqrt{a} + B \sqrt{a} = (A+B) \sqrt{a}$$

$$C \sqrt{a} - D \sqrt{a} = (C-D) \sqrt{a}$$



ⓑ Escribe las siguientes potencias en raíz.

- Ⓐ $10^{\frac{1}{2}}$
- Ⓒ $8^{\frac{1}{3}}$
- Ⓓ $10^{\frac{1}{4}}$
- Ⓑ $24^{\frac{1}{10}}$
- Ⓔ $21^{\frac{1}{25}}$
- Ⓕ $11^{\frac{1}{11}}$
- Ⓗ $12^{\frac{1}{3}}$
- Ⓙ $6^{\frac{1}{6}}$
- Ⓖ $100^{\frac{1}{100}}$
- Ⓙ $2^{\frac{1}{2}}$
- Ⓚ $6^{\frac{1}{6}}$
- Ⓛ $10^{\frac{1}{10}}$



1 Realiza las siguientes operaciones en tu cuaderno:

a. $\sqrt{5} \cdot \sqrt{6} \cdot \sqrt{10} \cdot \sqrt{8}$
120

b. $\sqrt{2} \cdot \sqrt{5} \cdot \sqrt{6}$
6

c. $\sqrt{16} \cdot \sqrt{9} \cdot \sqrt{25}$
60

d. $\frac{\sqrt{27}}{\sqrt{3}}$ 3

e. $\frac{\sqrt{160}}{\sqrt{5}}$ 8

f. $\frac{\sqrt{24}}{\sqrt{3}}$ 2

g. $\sqrt{9} \cdot \sqrt{2} \cdot \sqrt{15} \cdot \sqrt{8}$
120

h. $\sqrt{\frac{9}{4}} \cdot \sqrt{\frac{1}{3}} \cdot \sqrt{15} \cdot \sqrt{4}$
5

i. $\sqrt{19} \cdot \sqrt{5} \cdot \sqrt{11} \cdot \sqrt{2}$
206

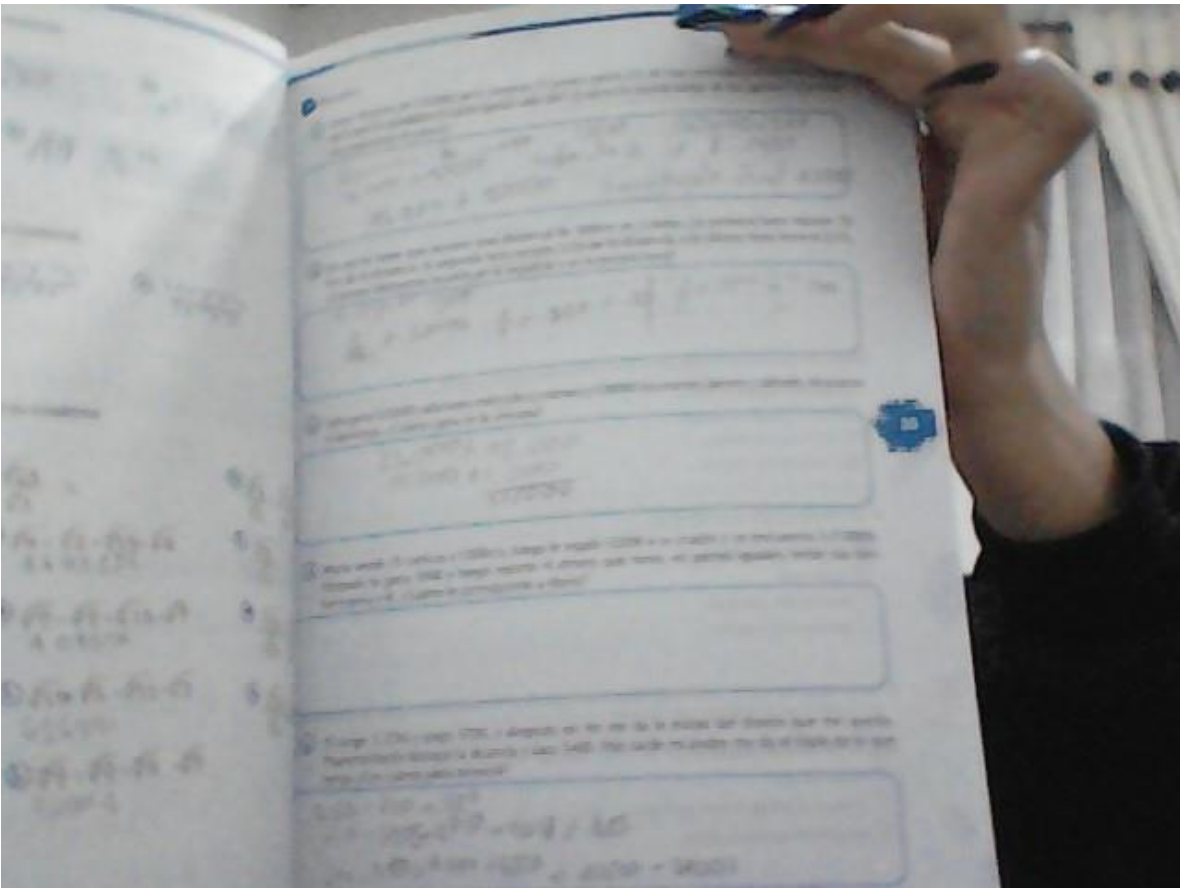
j. $\sqrt{\frac{1}{4}} \cdot \sqrt{\frac{1}{3}} \cdot \sqrt{\frac{1}{7}} \cdot \sqrt{\frac{1}{4}}$
1/28

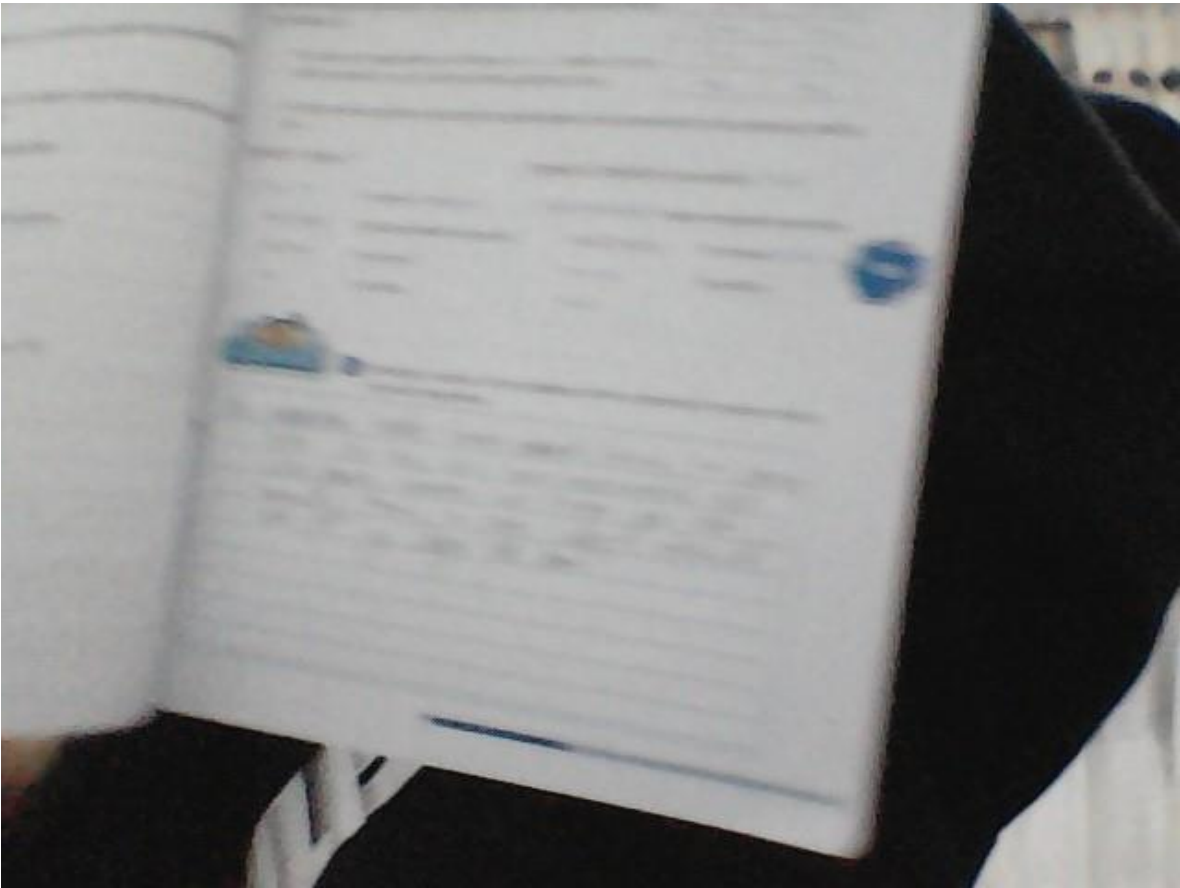
k. $\frac{\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{3}}$

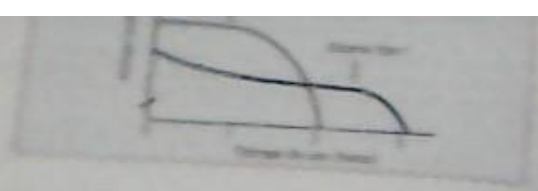
l. $\frac{\sqrt{9}}{\sqrt{3}}$

m. $\frac{\sqrt{10}}{\sqrt{15}} \cdot \frac{\sqrt{15}}{\sqrt{10}}$

n. $\frac{\sqrt{18}}{\sqrt{6}}$







¿Cuál es el efecto cuando se calienta un cuerpo?

- a) El volumen aumenta
- b) El volumen disminuye
- c) El volumen se mantiene constante
- d) El volumen disminuye

¿Qué ocurre cuando se calienta un cuerpo?

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