



ОВЛАДЕЙ СИЛАТА НА СТЕПЕНИТЕ!

Име: _____ Дата: _____ Клас: _____

ЧАСТ 1

Изразите са еднакви, но за всеки е даден различен очакван резултат.
Поставете скобите така, че равенствата да станат верни.

- $3 + 2 \cdot 4^2 - 5 = 26$
- $3 + 2 \cdot 4^2 - 5 = 75$
- $3 + 2 \cdot 4^2 - 5 = 122$
- $1,5 + 0,5 \cdot 2^2 - 0,3 = 2,2$
- $1,5 + 0,5 \cdot 2^2 - 0,3 = 6,9$
- $1,5 + 0,5 \cdot 2^2 - 0,3 = 8,7$
- $-2 + 3 \cdot (-4)^2 - 5 = 41$
- $-2 + 3 \cdot (-4)^2 - 5 = 55$
- $-2 + 3 \cdot (-4)^2 - 5 = 83$

ЧАСТ 2

Решете следните изрази, като спазвате реда на действията:

- Ниво 1 – Подгряване (цели числа)

а) $5^2 - 1^3 =$

б) $(-2)^3 + 3^2 =$

в) $2^3 \cdot 3 + 4^2 =$

г) $50 : 5^2 + (-1)^4 =$

д) $(4 + 2)^2 - 3 \cdot 2 =$

- Ниво 2 – Изрази с десетични дроби

а) $2 \cdot 0,6^2 + 6 \cdot 0,2^2 =$

б) $10 \cdot (-0,4)^3 + (2 - 0,6)^2 =$

в) $(1,2 + 0,8)^2 - 0,5^3 =$

г) $3 \cdot (0,7)^2 + 2 \cdot (1,3 - 0,3)^3 =$

д) $0,2^3 + 0,5^2 \cdot 3 =$

- Ниво 3 – Изрази с обикновени гроби

Математика

6 клас



а) $\left(\frac{2}{3}\right)^3 + \frac{1}{2} \cdot 3^2 =$

б) $4 \cdot \left(\frac{1}{2}\right)^2 - \frac{3}{4} =$

в) $\frac{3^3 + 2^3}{(3+2)^3} =$

г) $\left(-\frac{1}{3}\right)^3 \cdot 3 + \left(\frac{1}{3}\right)^2 =$

- Ниво 4 – Смесени и предизвикателни

а) $4^2 : 2^3 - (-1)^4 \cdot 1,34 =$

б) $(7 - 5)^3 - 2 \cdot \frac{1}{3} \cdot 3^2 =$

в) $\left(1 \frac{1}{2}\right)^3 + (-2)^2 \cdot \frac{3}{4} =$

г) $\left(\frac{3}{2}\right)^2 - \frac{1}{2} \cdot (2 - 1)^3 =$

д) $(-1,5)^2 + (0,5)^3 \cdot 2 =$

ЧАСТ 3

Кое от равенствата е вярно?

а) $2^3 + 2^4 = 2^5$

б) $(2+3)^2 = 2^2 + 3^2$

в) $10^2 - 2 \cdot 10^2 = -10^2$

г) $6 \cdot 5^3 = 30^3$





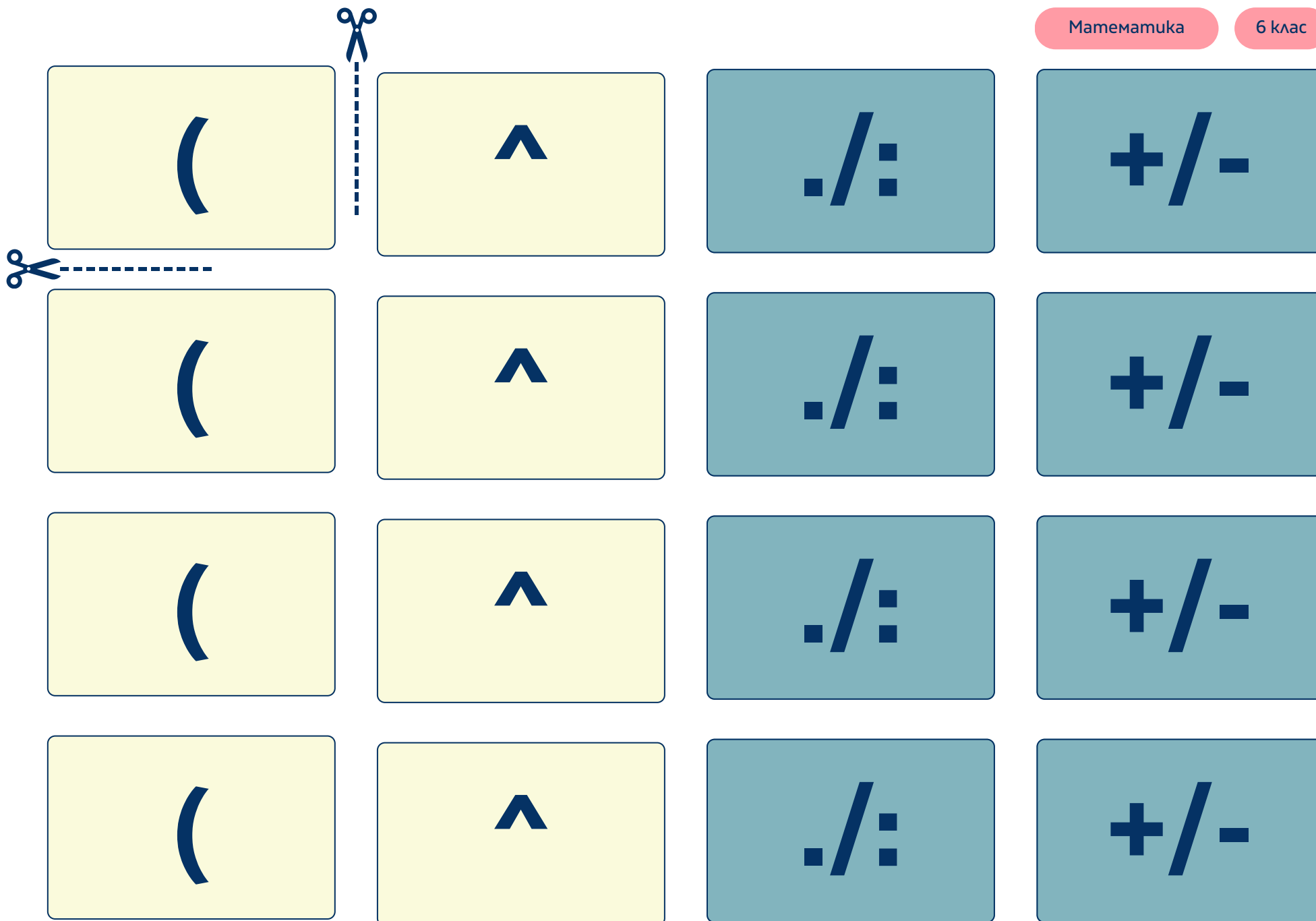
**АЗ СЪМ СКОБАТА —
винаги първа действам!**

**АЗ СЪМ СТЕПЕНТА —
моят ред идва след
скобите**



**АЗ СЪМ СЪБИРАНЕТО/
ИЗВАЖДАНЕТО —
аз съм последен, но без мен
няма краен резултат!**

**АЗ СЪМ УМНОЖЕНИЕТО/
ДЕЛЕНИЕТО —
изчаквам степените, но
съм по-силен от
събирането/ изваждането!**



ПРИЛОЖЕНИЕ 2



Математика

6 клас



4

2

:

3^2

4

2

:

3^2

4

2

:

3^2

4

2

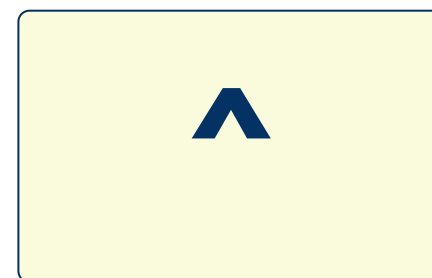
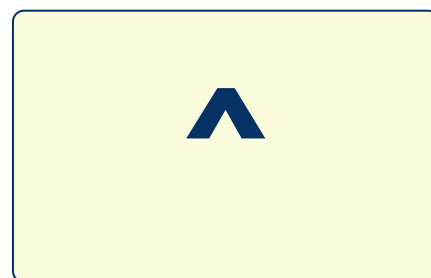
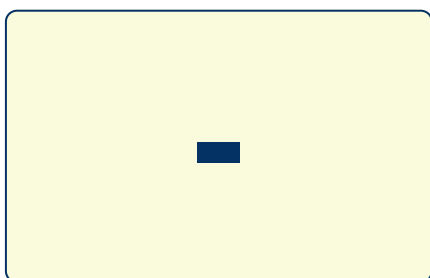
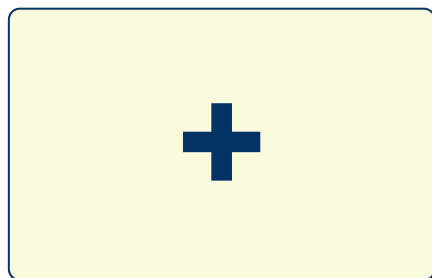
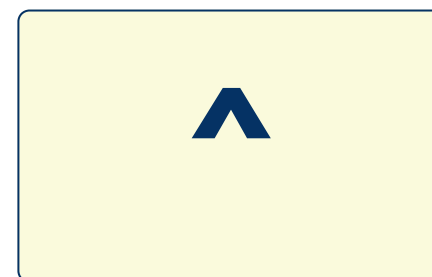
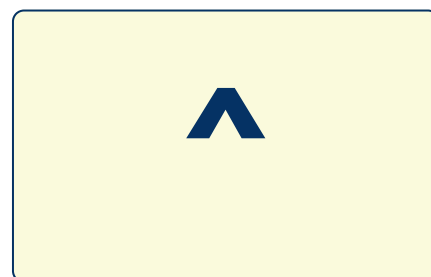
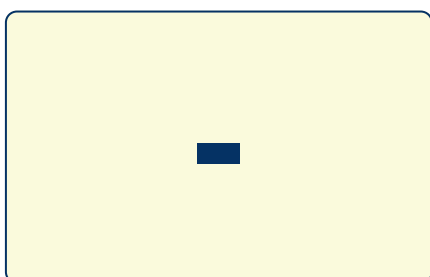
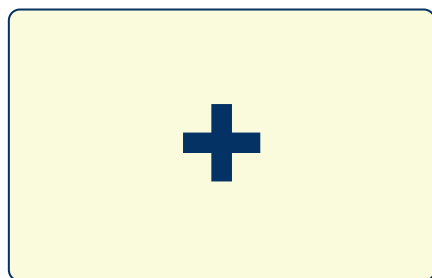
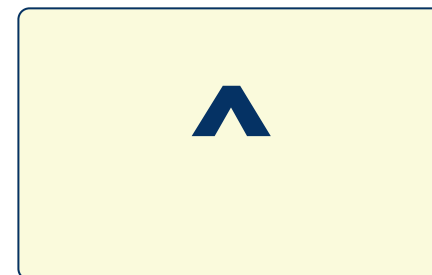
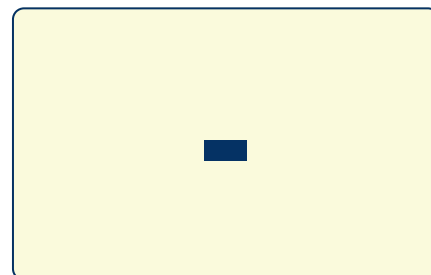
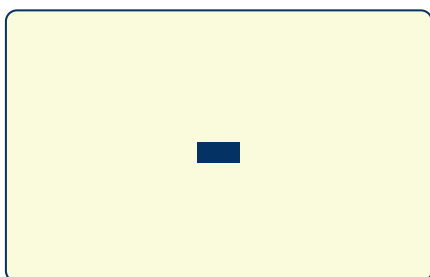
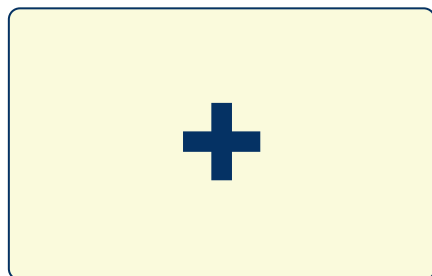
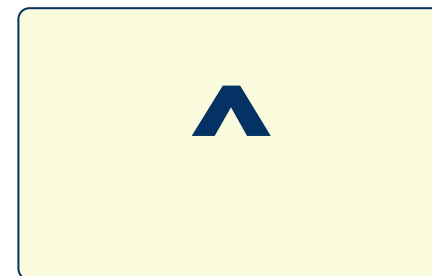
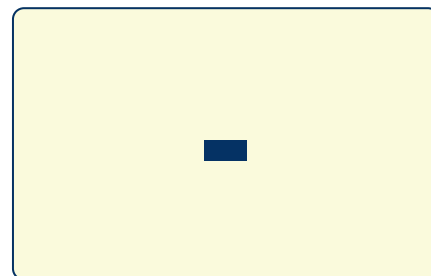
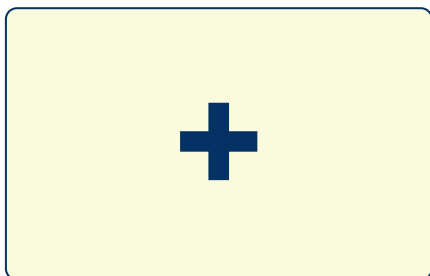
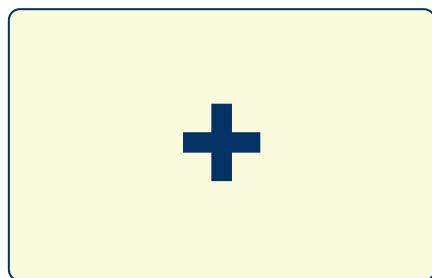
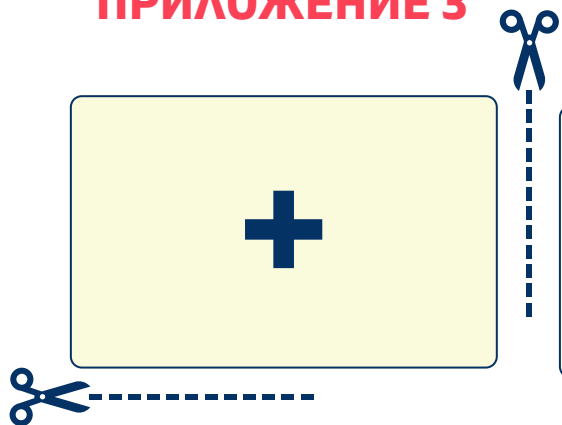
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3^2

ПРИЛОЖЕНИЕ 3

Математика

6 клас

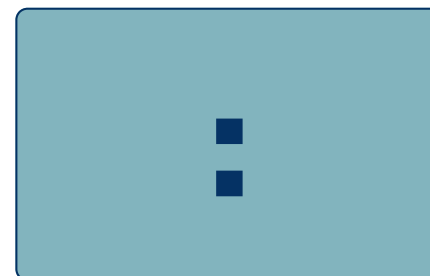
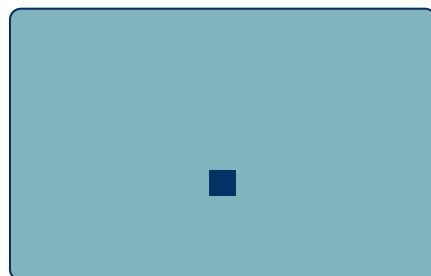
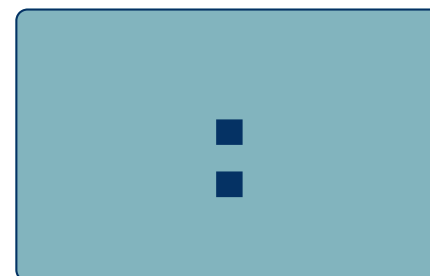
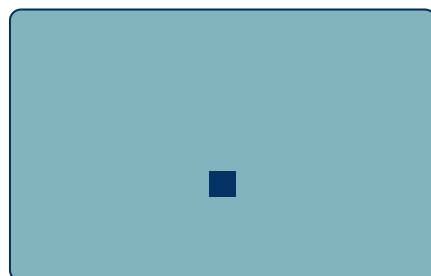
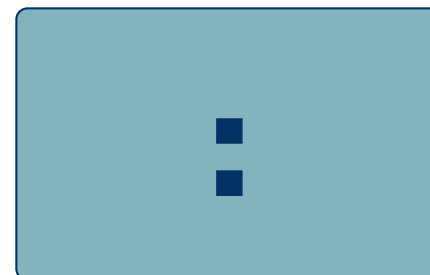
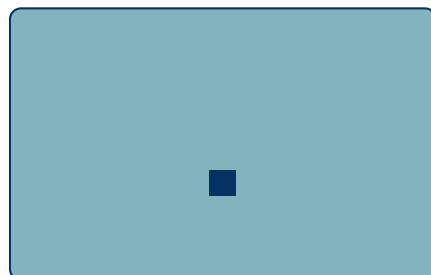
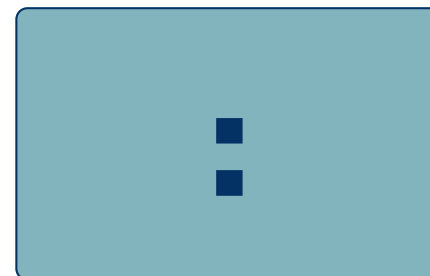
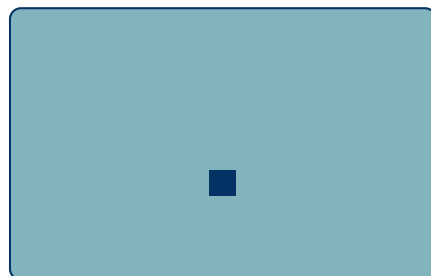
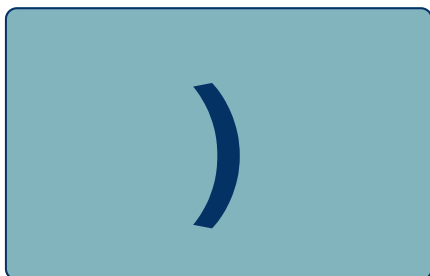


ПРИЛОЖЕНИЕ 4



Математика

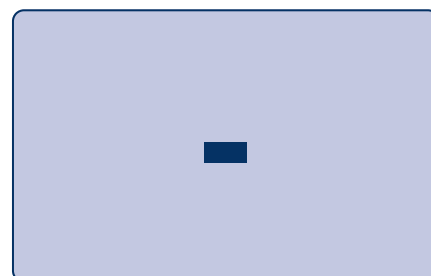
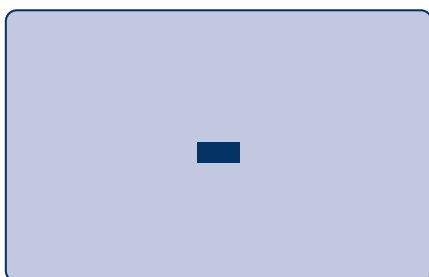
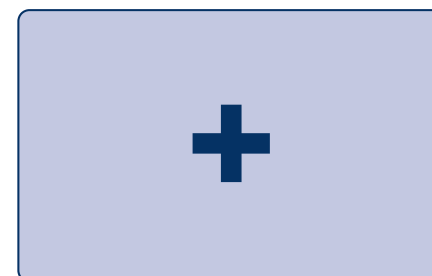
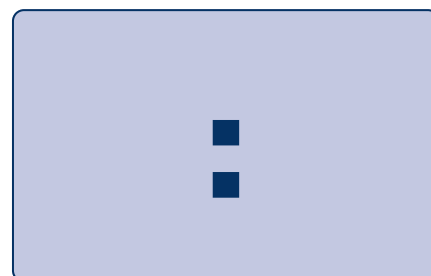
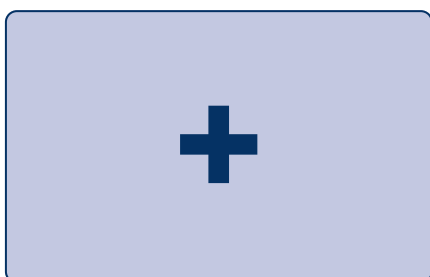
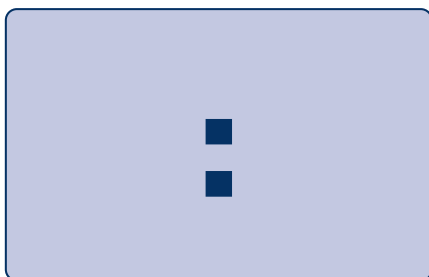
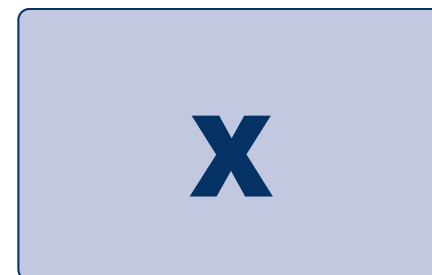
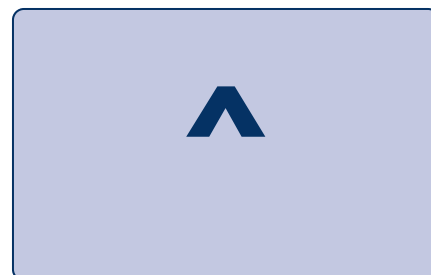
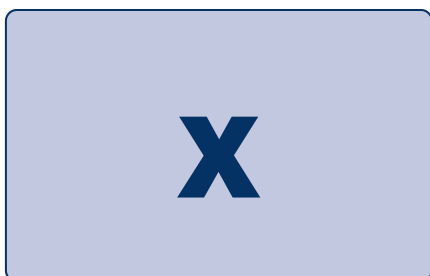
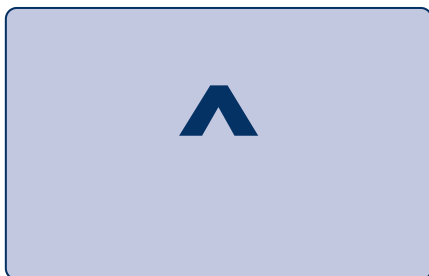
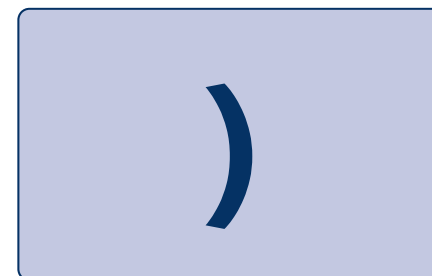
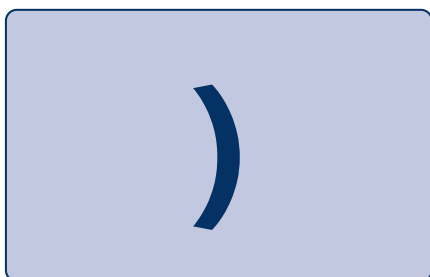
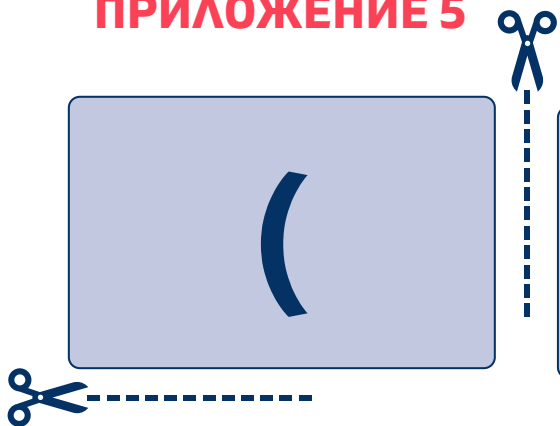
6 клас

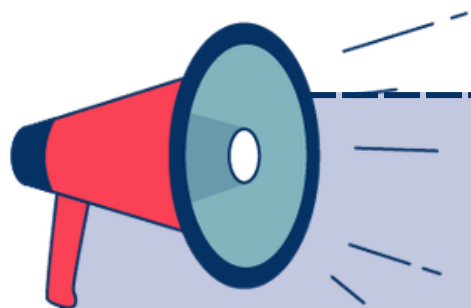


ПРИЛОЖЕНИЕ 5

Математика

6 клас





РЕД НА ДЕЙСТВИЯТА ПРИ ПРЕСМЯТАНЕ НА ИЗРАЗИ, СЪДЪРЖАЩИ СТЕПЕНИ:

- 1.** Първо се извършва действието степенуване.
 - 2.** След това – умножение и деление (в реда, в който се срещат отляво надясно).
 - 3.** Накрая – събиране и изваждане (също отляво надясно).
- !** Ако в израза има скоби, действията в тях се извършват преди всичко останало.