

Na aula de hoje iremos jogar “Bingo “

Dividam-se em duplas.

Cada dupla irá receber uma cartela com nove expressões. O objetivo do jogo é bater a linha, ou seja, vertical, horizontal ou diagonal.

Para fazer as marcações, é necessário ver se a expressão que o professor cantar corresponde ao que você tiver em algum quadrado. Cada cartela contém uma distribuição da seguinte forma, na primeira coluna operações de adição e subtração com radicais (SS), a segunda representa multiplicação e divisão (MD) e a última coluna potências (P).

Abaixo está a lista de pedras que serão cantadas e marcadas nas cartelas:

SS	MD	P
$\sqrt{18} + \sqrt{8} = 5\sqrt{2}$	$\sqrt{18} \times \sqrt{2} = 6$	$5^{\frac{2}{5}} = \sqrt[5]{25}$
$\sqrt{12} - \sqrt{3} = \sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}} = 2$	$\sqrt[4]{36} = 6^{\frac{1}{2}}$
$\sqrt{125} - \sqrt{45} = 2\sqrt{5}$	$\frac{\sqrt[6]{4}}{\sqrt[3]{2}} = 1$	$(\sqrt[5]{11})^{10} = 121$
$\sqrt{7} + \sqrt{64} = \sqrt{7} + 8$	$\sqrt{10} \times \sqrt{18} = 6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6 = \frac{125}{49}$
$\sqrt{81} - \sqrt[3]{64} = 9 - 4 = 5$	$\frac{\sqrt{15}}{\sqrt{20}} = \frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}} = \sqrt[6]{5^7}$
$\sqrt[3]{24} + \sqrt[4]{162} = 2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}} = \frac{3\sqrt{2}}{2}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}} = \sqrt[5]{\frac{3}{4}}$

Lista com as pedras a serem cantadas:

SS	MD	P
$5\sqrt{2}$	6	$\sqrt[5]{25}$
$\sqrt{12} - \sqrt{3}$	2	$6^{\frac{1}{2}}$
$2\sqrt{5}$	$\frac{\sqrt[6]{4}}{\sqrt[3]{2}}$	$(\sqrt[5]{11})^{10}$
$\sqrt{7} + \sqrt{64}$	$\sqrt{10} \times \sqrt{18}$	$\frac{125}{49}$
5	$\frac{\sqrt{15}}{\sqrt{20}}$	$\sqrt[6]{5^7}$
$\sqrt[3]{24} + \sqrt[4]{162}$	$\frac{3\sqrt{2}}{2}$	$\sqrt[5]{\frac{3}{4}}$

Cada peça está relacionada com sua respectiva operação ou resultado.

Cartelas:

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SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{125} - \sqrt{45}$	1	121

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SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$

3

SS	MD	P
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{7} + 8$	$6\sqrt{5}$	$\frac{125}{49}$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

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SS	MD	P
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$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

5

SS	MD	P
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$

6

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

7

SS	MD	P
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$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$

8

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$

9

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

10

SS	MD	P
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$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

11

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{125} - \sqrt{45}$	1	121
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

12

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

13

SS	MD	P
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$\sqrt{18} + \sqrt{8}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

14

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

15

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{125} - \sqrt{45}$	1	121
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

16

SS	MD	P
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$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

17

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

18

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

19

SS	MD	P
$\sqrt{125} - \sqrt{45}$	1	121



$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

20

SS	MD	P
$\sqrt{125} - \sqrt{45}$	1	121
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{3}}}{2^{\frac{2}{5}}}$

21

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\sqrt[4]{36}$
$\sqrt{3}$	1	121
$\sqrt{125} - \sqrt{45}$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$

22

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\frac{\sqrt{32}}{\sqrt{8}}$	121

$\sqrt{3}$	1	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{125} - \sqrt{45}$	$6\sqrt{5}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$

23

SS	MD	P
$\sqrt{3}$	1	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{125} - \sqrt{45}$	$6\sqrt{5}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$\sqrt{7} + 8$	$\frac{\sqrt{3}}{2}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

24

SS	MD	P
$\sqrt{3}$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{125} - \sqrt{45}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$\sqrt{7} + 8$	$\frac{\sqrt{9}}{\sqrt{2}}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

25

SS	MD	P
$\sqrt{7} + 8$	$\sqrt{18} \times \sqrt{2}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$

$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	1	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

26

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$\sqrt{125} - \sqrt{45}$	1	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$

27

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$5^{\frac{2}{5}}$
$\sqrt{125} - \sqrt{45}$	1	$\sqrt[4]{36}$
$\sqrt{81} - \sqrt[3]{64}$	$\frac{\sqrt{3}}{2}$	121

28

SS	MD	P
$\sqrt{18} + \sqrt{8}$	$\frac{\sqrt{3}}{2}$	$5^{\frac{1}{2}} \times 5^{\frac{2}{3}}$
$\sqrt{3}$	1	121

$\sqrt{125} - \sqrt{45}$	$\sqrt{18} \times \sqrt{2}$	$5^{\frac{2}{5}}$
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SS	MD	P
$\sqrt{7} + 8$	1	$5^{\frac{2}{5}}$
$\sqrt{81} - \sqrt[3]{64}$	$6\sqrt{5}$	$\sqrt[4]{36}$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{3}}{2}$	121

30

SS	MD	P
$\sqrt{3}$	$\frac{\sqrt{32}}{\sqrt{8}}$	$5^{\frac{2}{5}}$
$\sqrt{7} + 8$	$6\sqrt{5}$	$\left(\frac{\sqrt{5}}{\sqrt[3]{7}}\right)^6$
$2\sqrt[3]{3} + 3\sqrt[4]{2}$	$\frac{\sqrt{3}}{2}$	$\frac{3^{\frac{1}{5}}}{2^{\frac{2}{5}}}$