



Lösungen — Blatt 1

Drei Würfel addieren

1

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 15$$

2

$$\begin{array}{|c|} \hline \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 7$$

3

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 11$$

4

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 6$$

5

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 16$$

6

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 11$$

7

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 13$$

8

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 10$$

9

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 16$$

10

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 6$$

11

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 8$$

12

$$\begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \bullet \bullet \\ \hline \end{array} = 13$$

Lösungen — Blatt 2

Drei Würfel addieren

1

$$6 + 4 + 1 = 11$$

2

$$6 + 6 + 4 = 16$$

3

A visual addition problem using dice. It shows three dice faces: the first has 1 dot, the second has 5 dots, and the third has 2 dots. These are added together to equal 8, which is shown in a blue box.

4

A visual equation showing three dice faces. The first die shows 2 dots, the second die shows 2 dots, and the third die shows 6 dots. These are added together to equal 10, which is displayed in a blue box.

5

$$5 + 2 + 5 = 12$$

6

$$3 + 6 + 5 = 14$$

7

A visual equation showing three dice faces: 6, 1, and 3, followed by an equals sign and the number 10.

8

A visual equation showing the addition of three dice faces. The first die shows 1 dot, the second shows 4 dots, and the third shows 2 dots. These are followed by an equals sign and a box containing the number 7.

9

$$6 + 4 + 6 = 16$$

10

A visual equation showing the addition of three quantities. The first box contains 3 dots, the second box contains 1 dot, and the third box contains 3 dots. These are summed to equal a box containing 7 dots.

11

4 + 1 + 6 = 11

12

4 + 4 + 3 = 11



Lösungen — Blatt 3

Drei Würfel addieren

1

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} = \boxed{5}$$

2

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} = \boxed{11}$$

3

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = \boxed{4}$$

4

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} = \boxed{10}$$

5

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = \boxed{6}$$

6

$$\begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{15}$$

7

$$\begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} = \boxed{12}$$

8

$$\begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{17}$$

9

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{12}$$

10

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{10}$$

11

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{8}$$

12

$$\begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \bullet \bullet \\ \hline \end{array} = \boxed{12}$$



Lösungen — Blatt 4

Drei Würfel addieren

1

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{11}$$

2

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{14}$$

3

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{14}$$

4

$$\begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{8}$$

5

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{13}$$

6

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{10}$$

7

$$\begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{7}$$

8

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{12}$$

9

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} = \boxed{9}$$

10

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{12}$$

11

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{7}$$

12

$$\begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \bullet \\ \hline \bullet \bullet \\ \hline \end{array} = \boxed{7}$$



Lösungen — Blatt 5

Drei Würfel addieren

1

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} = \boxed{5}$$

2

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{15}$$

3

$$\begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} = \boxed{9}$$

4

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = \boxed{9}$$

5

$$\begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{9}$$

6

$$\begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{9}$$

7

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = \boxed{6}$$

8

$$\begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{16}$$

9

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{11}$$

10

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} = \boxed{18}$$

11

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = \boxed{12}$$

12

$$\begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \quad \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \quad \bullet \\ \hline \end{array} = \boxed{11}$$

10

Lösungen — Blatt 7

Drei Würfel addieren

1

$$6 + 2 + 5 = 13$$

2

$$6 + 3 + 2 = 11$$

3

6 + 5 + 5 = 16

4

3 + 2 + 6 = 11

5

6 + 2 + 6 = 14

6

1 + 1 + 3 = 5

7

$$6 + 2 + 4 = 12$$

8

1 + 2 + 4 = 7

9

$$4 + 5 + 3 = 12$$

10

A visual equation: a square with 1 dot + a square with 4 dots + a square with 4 dots = a square with 9 dots.

11

5 + 4 + 2 = 11

12

A visual equation showing three dice faces: 2, 6, and 4, followed by an equals sign and the number 12.

Lösungen — Blatt 8

Drei Würfel addieren

1

3 + 4 + 4 = 11

2

A visual equation using dice faces: a square with 1 dot, followed by a plus sign, a square with 4 dots, followed by a plus sign, a square with 2 dots, followed by an equals sign, and a blue square containing the number 7.

3

3 + 3 + 1 = 7

4

A visual equation showing three dice faces: 1, 4, and 3, followed by an equals sign and the number 8.

5

$$9 + 3 + 1 = 10$$

6

1 + 3 + 6 = 11

7

A visual addition problem. It shows three squares, each containing a different number of dots. The first square has 2 dots, the second has 6 dots, and the third has 1 dot. These are added together to equal a square containing 9 dots.

8

$$4 + 2 + 5 = 11$$

9

$$5 + 3 + 6 = 14$$

10

1 + 3 + 5 = 9

11

4 + 6 + 5 = 15

12

5 + 5 + 2 = 12



Lösungen — Blatt 9

Drei Würfel addieren

1

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 8$$

2

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} = 16$$

3

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} = 14$$

4

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 11$$

5

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 7$$

6

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} = 15$$

7

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} = 15$$

8

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} = 13$$

9

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 13$$

10

$$\begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|c|} \hline \bullet & \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 11$$

11

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 8$$

12

$$\begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} + \begin{array}{|c|} \hline \bullet \\ \hline \end{array} = 7$$

$$5 + 3 + 6 = 14$$