

ADDITION (+0)

$$\begin{array}{r} 0 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +0 \\ \hline \end{array}$$

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ADDITION (+0)

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ADDITION (+1)

$$\begin{array}{r} 0 \\ + 1 \\ \hline \end{array}$$

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ADDITION (+1)

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ADDITION (+2)

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ADDITION (+2)

6 5 4 3 2

11 10 9 8 7

14 13 12

ADDITION (+3)

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ADDITION (+3)

7 6 5 4 3

12 11 10 9 8

15 14 13

ADDITION (+4)

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ADDITION (+4)

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ADDITION (+5)

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ADDITION (+5)

9 8 7 6 5

14 13 12 11 10

17 16 15

ADDITION (+6)

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ADDITION (+6)

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ADDITION (+7)

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ADDITION (+7)

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ADDITION (+8)

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ADDITION (+8)

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17 16 15 14 13

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ADDITION (+9)

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ADDITION (+9)

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ADDITION (+10)

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ADDITION (+10)

14 13 12 11 10

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22 21 20

ADDITION (+II)

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ADDITION (+II)

15 14 13 12 11

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23 22 21

ADDITION (+12)

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ADDITION (+12)

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ADDITION (+0)

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$$6+0=$$

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$$11+0=$$

$$12+0=$$

ADDITION (+0)

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ADDITION (+1)

$$0 + 1 =$$

$$1 + 1 =$$

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$$11 + 1 =$$

$$12 + 1 =$$

ADDITION (+1)

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ADDITION (+2)

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$$11 + 2 =$$

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$$0 + 2 =$$

$$1 + 2 =$$

$$2 + 2 =$$

$$3 + 2 =$$

$$4 + 2 =$$

ADDITION (+2)

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ADDITION (+3)

$$10 + 3 =$$

$$11 + 3 =$$

$$12 + 3 =$$

$$5 + 3 =$$

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$$7 + 3 =$$

$$8 + 3 =$$

$$9 + 3 =$$

$$0 + 3 =$$

$$1 + 3 =$$

$$2 + 3 =$$

$$3 + 3 =$$

$$4 + 3 =$$

ADDITION (+3)

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ADDITION (+4)

$$0 + 0 =$$

$$1 + 1 =$$

$$2 + 2 =$$

$$3 + 3 =$$

$$4 + 4 =$$

$$5 + 5 =$$

$$6 + 6 =$$

$$7 + 7 =$$

$$8 + 8 =$$

$$9 + 9 =$$

$$10 + 10 =$$

$$11 + 11 =$$

$$12 + 12 =$$

ADDITION (+4)

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ADDITION (+5)

$$0 + 5 =$$

$$1 + 5 =$$

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$$10 + 5 =$$

$$11 + 5 =$$

$$12 + 5 =$$

ADDITION (+5)

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ADDITION (+6)

$$0 + 6 =$$

$$1 + 6 =$$

$$2 + 6 =$$

$$3 + 6 =$$

$$4 + 6 =$$

$$5 + 6 =$$

$$6 + 6 =$$

$$7 + 6 =$$

$$8 + 6 =$$

$$9 + 6 =$$

$$10 + 6 =$$

$$11 + 6 =$$

$$12 + 6 =$$

ADDITION (+6)

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ADDITION (+7)

$0 + 7 =$

$1 + 7 =$

$2 + 7 =$

$3 + 7 =$

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$5 + 7 =$

$6 + 7 =$

$7 + 7 =$

$8 + 7 =$

$9 + 7 =$

$10 + 7 =$

$11 + 7 =$

$12 + 7 =$

ADDITION (+7)

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ADDITION (+8)

$$0 + 8 =$$

$$1 + 8 =$$

$$2 + 8 =$$

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$$10 + 8 =$$

$$11 + 8 =$$

$$12 + 8 =$$

ADDITION (+8)

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ADDITION (+9)

$$0 + 9 =$$

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$$2 + 9 =$$

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$$10 + 9 =$$

$$11 + 9 =$$

$$12 + 9 =$$

ADDITION (+9)

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ADDITION (+10)

$$10 + 10 =$$

$$11 + 10 =$$

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$$0 + 10 =$$

$$1 + 10 =$$

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ADDITION (+10)

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ADDITION (+II)

$$0 + 1 = 1$$

$$1 + 1 = 2$$

$$2 + 1 = 3$$

$$3 + 1 = 4$$

$$4 + 1 = 5$$

$$5 + 1 = 6$$

$$6 + 1 = 7$$

$$7 + 1 = 8$$

$$8 + 1 = 9$$

$$9 + 1 = 10$$

$$10 + 1 = 11$$

$$11 + 1 = 12$$

$$12 + 1 = 13$$

ADDITION (+II)

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ADDITION (+12)

$$0 + 12 =$$

$$1 + 12 =$$

$$2 + 12 =$$

$$3 + 12 =$$

$$4 + 12 =$$

$$5 + 12 =$$

$$6 + 12 =$$

$$7 + 12 =$$

$$8 + 12 =$$

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$$11 + 12 =$$

$$12 + 12 =$$

ADDITION (+12)

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SUBTRACTION (-0)

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SUBTRACTION (-0)

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SUBTRACTION (-1)

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SUBTRACTION (-I)

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SUBTRACTION (-2)

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SUBTRACTION (-2)

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SUBTRACTION (-3)

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SUBTRACTION (-3)

1 0 10 11 12

6 5 4 3 2

9 8 7

SUBTRACTION (-4)

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SUBTRACTION (-4)

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SUBTRACTION (-5)

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SUBTRACTION (-5)

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SUBTRACTION (-6)

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$$\begin{array}{r} 11 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -6 \\ \hline \end{array}$$

SUBTRACTION (-6)

4

3

2

1

0

9

8

7

6

5

12

11

10

SUBTRACTION (-7)

$$\begin{array}{r} 7 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ -7 \\ \hline \end{array}$$

SUBTRACTION (-7)

4

3

2

1

0

9

8

7

6

5

12

11

10

SUBTRACTION (-8)

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 8 \\ \hline \end{array}$$

SUBTRACTION (-8)

4

3

2

1

0

9

8

7

6

5

12

11

10

SUBTRACTION (-9)

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ - 9 \\ \hline \end{array}$$

SUBTRACTION (-9)

4

3

2

1

0

9

8

7

6

5

12

11

10

SUBTRACTION (-10)

$$\begin{array}{r} 10 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ -10 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ -10 \\ \hline \end{array}$$

SUBTRACTION (-10)

4

3

2

1

0

9

8

7

6

5

12

11

10

SUBTRACTION (-II)

$$\begin{array}{r} 11 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ - 11 \\ \hline \end{array}$$

SUBTRACTION (-II)

4 3 2 1 0

9 8 7 6 5

12 11 10

SUBTRACTION (-12)

$$\begin{array}{r} 12 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ -12 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ -12 \\ \hline \end{array}$$

SUBTRACTION (-12)

4 3 2 1 0

9 8 7 6 5

12 11 10

SUBTRACTION (-0)

$$0-0=$$

$$1-0=$$

$$2-0=$$

$$3-0=$$

$$4-0=$$

$$5-0=$$

$$6-0=$$

$$7-0=$$

$$8-0=$$

$$9-0=$$

$$10-0=$$

$$11-0=$$

$$12-0=$$

SUBTRACTION (-0)

4

3

2

1

0

9

8

7

6

5

12

=

10

SUBTRACTION (-1)

$10 - 1 =$

$11 - 1 =$

$12 - 1 =$

$13 - 1 =$

$5 - 1 =$

$6 - 1 =$

$7 - 1 =$

$8 - 1 =$

$9 - 1 =$

$1 - 1 =$

$2 - 1 =$

$3 - 1 =$

$4 - 1 =$

SUBTRACTION (-I)

3

2

1

0

8

7

6

5

4

12

=

10

2

SUBTRACTION (-2)

$10 - 2 =$

$5 - 2 =$

$2 - 2 =$

$11 - 2 =$

$6 - 2 =$

$3 - 2 =$

$12 - 2 =$

$7 - 2 =$

$4 - 2 =$

$13 - 2 =$

$8 - 2 =$

$5 - 2 =$

$14 - 2 =$

$9 - 2 =$

$6 - 2 =$

SUBTRACTION (-2)

2

1

0

7

6

5

4

3

12

11

10

9

8

SUBTRACTION (-3)

$10 - 3 =$

$5 - 3 =$

$15 - 3 =$

$11 - 3 =$

$6 - 3 =$

$15 - 3 =$

$12 - 3 =$

$7 - 3 =$

$15 - 3 =$

$13 - 3 =$

$8 - 3 =$

$3 - 3 =$

$14 - 3 =$

$9 - 3 =$

$4 - 3 =$

SUBTRACTION (-3)

1

0

12

6

5

4

3

2

11

10

9

8

7

SUBTRACTION (-4)

$$10 - 4 = 6$$

$$5 - 9 = -4$$

$$12 - 4 = 8$$

$$7 - 4 = 3$$

$$16 - 4 = 12$$

$$13 - 4 = 9$$

$$8 - 4 = 4$$

$$15 - 4 = 11$$

$$11 - 4 = 7$$

$$6 - 4 = 2$$

$$14 - 4 = 10$$

$$9 - 4 = 5$$

$$17 - 4 = 13$$

SUBTRACTION (-4)

0

=

12

5

4

3

2

1

10

9

8

7

6

SUBTRACTION (-5)

$5-5=$

$6-5=$

$7-5=$

$8-5=$

$9-5=$

$10-5=$

$11-5=$

$12-5=$

$13-5=$

$14-5=$

$15-5=$

$16-5=$

$17-5=$

SUBTRACTION (-5)

4

3

2

—

0

9

8

7

6

5

12

=

10

SUBTRACTION (-6)

$6-6=$

$7-6=$

$8-6=$

$9-6=$

$10-6=$

$11-6=$

$12-6=$

$13-6=$

$14-6=$

$15-6=$

$16-6=$

$17-6=$

$18-6=$

SUBTRACTION (-6)

4

3

2

—

0

9

8

7

6

5

12

=

10

SUBTRACTION (-7)

$17-7=$

$18-7=$

$19-7=$

$12-7=$

$13-7=$

$14-7=$

$15-7=$

$16-7=$

$7-7=$

$8-7=$

$9-7=$

$10-7=$

$11-7=$

SUBTRACTION (-7)

4

3

2

—

0

9

8

7

6

5

12

=

10

SUBTRACTION (-8)

$18 - 8 =$

$13 - 8 =$

$8 - 8 =$

$19 - 8 =$

$14 - 8 =$

$9 - 8 =$

$20 - 8 =$

$15 - 8 =$

$10 - 8 =$

$16 - 8 =$

$11 - 8 =$

$17 - 8 =$

$12 - 8 =$

SUBTRACTION (-8)

4

3

2

—

0

9

8

7

6

5

12

=

10

SUBTRACTION (-9)

$9-9=$

$10-9=$

$11-9=$

$12-9=$

$13-9=$

$14-9=$

$15-9=$

$16-9=$

$17-9=$

$18-9=$

$19-9=$

$20-9=$

$21-9=$

SUBTRACTION (-9)

4

3

2

1

0

9

8

7

6

5

12

=

10

SUBTRACTION (-10)

$20-10=$

$21-10=$

$22-10=$

$15-10=$

$16-10=$

$17-10=$

$18-10=$

$19-10=$

$10-10=$

$11-10=$

$12-10=$

$13-10=$

$14-10=$

SUBTRACTION (-10)

4

3

2

1

0

9

8

7

6

5

12

=

10

ADDITION (+II)

21-11=

16-11=

11-11=

22-11=

17-11=

12-11=

23-11=

18-11=

13-11=

19-11=

14-11=

20-11=

15-11=

SUBTRACTION (-II)

4

3

2

—

0

9

8

7

6

5

12

11

10

ADDITION (-12)

$22-12=$

$17-12=$

$12-12=$

$23-12=$

$18-12=$

$13-12=$

$24-12=$

$19-12=$

$14-12=$

$20-12=$

$15-12=$

$21-12=$

$16-12=$

SUBTRACTION (-12)

4

3

2

—

0

9

8

7

6

5

12

=

10