

Number Bonds to 5

$$0 + 5 = 5$$

$$1 + 4 = 5$$

$$2 + 3 = 5$$

$$3 + 2 = 5$$

$$4 + 1 = 5$$

$$5 + 0 = 5$$

$$5 - 0 = 5$$

$$5 - 1 = 4$$

$$5 - 2 = 3$$

$$5 - 3 = 2$$

$$5 - 4 = 1$$

$$5 - 5 = 0$$

Number Bonds to 10

$0 + 10 = 10$

$10 - 0 = 10$

$1 + 9 = 10$

$10 - 1 = 9$

$2 + 8 = 10$

$10 - 2 = 8$

$3 + 7 = 10$

$10 - 3 = 7$

$4 + 6 = 10$

$10 - 4 = 6$

$5 + 5 = 10$

$10 - 5 = 5$

$6 + 4 = 10$

$10 - 6 = 4$

$7 + 3 = 10$

$10 - 7 = 3$

$8 + 2 = 10$

$10 - 8 = 2$

$9 + 1 = 10$

$10 - 9 = 1$

$10 + 0 = 10$

$10 - 10 = 0$

Number Bonds to 6

$$0 + 6 = 6$$

$$1 + 5 = 6$$

$$2 + 4 = 6$$

$$3 + 3 = 6$$

$$4 + 2 = 6$$

$$5 + 1 = 6$$

$$6 + 0 = 6$$

$$6 - 0 = 6$$

$$6 - 1 = 5$$

$$6 - 2 = 4$$

$$6 - 3 = 3$$

$$6 - 4 = 2$$

$$6 - 5 = 1$$

$$6 - 6 = 0$$

Number Bonds to 7

$0 + 7 = 7$

$7 - 0 = 7$

$1 + 6 = 7$

$7 - 1 = 6$

$2 + 5 = 7$

$7 - 2 = 5$

$3 + 4 = 7$

$7 - 3 = 4$

$4 + 3 = 7$

$7 - 4 = 3$

$5 + 2 = 7$

$7 - 5 = 2$

$6 + 1 = 7$

$7 - 6 = 1$

$7 + 0 = 7$

$7 - 7 = 0$

Number Bonds to 8

$0 + 8 = 8$

$8 - 0 = 8$

$1 + 7 = 8$

$8 - 1 = 7$

$2 + 6 = 8$

$8 - 2 = 6$

$3 + 5 = 8$

$8 - 3 = 5$

$4 + 4 = 8$

$8 - 4 = 4$

$5 + 3 = 8$

$8 - 5 = 3$

$6 + 2 = 8$

$8 - 6 = 2$

$7 + 1 = 8$

$8 - 7 = 1$

$8 + 0 = 8$

$8 - 8 = 0$

Number Bonds to 9

$0 + 9 = 9$

$1 + 8 = 9$

$2 + 7 = 9$

$3 + 6 = 9$

$4 + 5 = 9$

$5 + 4 = 9$

$6 + 3 = 9$

$7 + 2 = 9$

$8 + 1 = 9$

$9 + 0 = 9$

$9 - 0 = 9$

$9 - 1 = 8$

$9 - 2 = 7$

$9 - 3 = 6$

$9 - 4 = 5$

$9 - 5 = 4$

$9 - 6 = 3$

$9 - 7 = 2$

$9 - 8 = 1$

$9 - 9 = 0$

Number Bonds to 20

$0 + 20 = 20$

$20 - 0 = 20$

$1 + 19 = 20$

$20 - 1 = 19$

$2 + 18 = 20$

$20 - 2 = 18$

$3 + 17 = 20$

$20 - 3 = 17$

$4 + 16 = 20$

$20 - 4 = 16$

$5 + 15 = 20$

$20 - 5 = 15$

$6 + 14 = 20$

$20 - 6 = 14$

$7 + 13 = 20$

$20 - 7 = 13$

$8 + 12 = 20$

$20 - 8 = 12$

$9 + 11 = 20$

$20 - 9 = 11$

$10 + 10 = 20$

$20 - 10 = 10$

$11 + 9 = 20$

$20 - 11 = 9$

$12 + 8 = 20$

$20 - 12 = 8$

$13 + 7 = 20$

$20 - 13 = 7$

$14 + 6 = 20$

$20 - 14 = 6$

$15 + 5 = 20$

$20 - 15 = 5$

$16 + 4 = 20$

$20 - 16 = 4$

$17 + 3 = 20$

$20 - 17 = 3$

$18 + 2 = 20$

$20 - 18 = 2$

$19 + 1 = 20$

$20 - 19 = 1$

$20 + 0 = 20$

$20 - 20 = 0$

Number Bonds to 11

$0 + 11 = 11$

$11 - 0 = 11$

$1 + 10 = 11$

$11 - 1 = 10$

$2 + 9 = 11$

$11 - 2 = 9$

$3 + 8 = 11$

$11 - 3 = 8$

$4 + 7 = 11$

$11 - 4 = 7$

$5 + 6 = 11$

$11 - 5 = 6$

$6 + 5 = 11$

$11 - 6 = 5$

$7 + 4 = 11$

$11 - 7 = 4$

$8 + 3 = 11$

$11 - 8 = 3$

$9 + 2 = 11$

$11 - 9 = 2$

$10 + 1 = 11$

$11 - 10 = 1$

$11 + 0 = 11$

$11 - 11 = 0$

Number Bonds to 12

$0 + 12 = 12$

$12 - 0 = 12$

$1 + 11 = 12$

$12 - 1 = 11$

$2 + 10 = 12$

$12 - 2 = 10$

$3 + 9 = 12$

$12 - 3 = 9$

$4 + 8 = 12$

$12 - 4 = 8$

$5 + 7 = 12$

$12 - 5 = 7$

$6 + 6 = 12$

$12 - 6 = 6$

$7 + 5 = 12$

$12 - 7 = 5$

$8 + 4 = 12$

$12 - 8 = 4$

$9 + 3 = 12$

$12 - 9 = 3$

$10 + 2 = 12$

$12 - 10 = 2$

$11 + 1 = 12$

$12 - 11 = 1$

$12 + 0 = 12$

$12 - 12 = 0$

Number Bonds to 13

$0 + 13 = 13$

$13 - 0 = 13$

$1 + 12 = 13$

$13 - 1 = 12$

$2 + 11 = 13$

$13 - 2 = 11$

$3 + 10 = 13$

$13 - 3 = 10$

$4 + 9 = 13$

$13 - 4 = 9$

$5 + 8 = 13$

$13 - 5 = 8$

$6 + 7 = 13$

$13 - 6 = 7$

$7 + 6 = 13$

$13 - 7 = 6$

$8 + 5 = 13$

$13 - 8 = 5$

$9 + 4 = 13$

$13 - 9 = 4$

$10 + 3 = 13$

$13 - 10 = 3$

$11 + 2 = 13$

$13 - 11 = 2$

$12 + 1 = 13$

$13 - 12 = 1$

$13 + 0 = 13$

$13 - 13 = 0$

Number Bonds to 14

$0 + 14 = 14$

$14 - 0 = 14$

$1 + 13 = 14$

$14 - 1 = 13$

$2 + 12 = 14$

$14 - 2 = 12$

$3 + 11 = 14$

$14 - 3 = 11$

$4 + 10 = 14$

$14 - 4 = 10$

$5 + 9 = 14$

$14 - 5 = 9$

$6 + 8 = 14$

$14 - 6 = 8$

$7 + 7 = 14$

$14 - 7 = 7$

$8 + 6 = 14$

$14 - 8 = 6$

$9 + 5 = 14$

$14 - 9 = 5$

$10 + 4 = 14$

$14 - 10 = 4$

$11 + 3 = 14$

$14 - 11 = 3$

$12 + 2 = 14$

$14 - 12 = 2$

$13 + 1 = 14$

$14 - 13 = 1$

$14 + 0 = 14$

$14 - 14 = 0$

Number Bonds to 15

$0 + 15 = 15$

$15 - 0 = 15$

$1 + 14 = 15$

$15 - 1 = 14$

$2 + 13 = 15$

$15 - 2 = 13$

$3 + 12 = 15$

$15 - 3 = 12$

$4 + 11 = 15$

$15 - 4 = 11$

$5 + 10 = 15$

$15 - 5 = 10$

$6 + 9 = 15$

$15 - 6 = 9$

$7 + 8 = 15$

$15 - 7 = 8$

$8 + 7 = 15$

$15 - 8 = 7$

$9 + 6 = 15$

$15 - 9 = 6$

$10 + 5 = 15$

$15 - 10 = 5$

$11 + 4 = 15$

$15 - 11 = 4$

$12 + 3 = 15$

$15 - 12 = 3$

$13 + 2 = 15$

$15 - 13 = 2$

$14 + 1 = 15$

$15 - 14 = 1$

$15 + 0 = 15$

$15 - 15 = 0$

Number Bonds to 16

$0 + 16 = 16$

$16 - 0 = 16$

$1 + 15 = 16$

$16 - 1 = 15$

$2 + 14 = 16$

$16 - 2 = 14$

$3 + 13 = 16$

$16 - 3 = 13$

$4 + 12 = 16$

$16 - 4 = 12$

$5 + 11 = 16$

$16 - 5 = 11$

$6 + 10 = 16$

$16 - 6 = 10$

$7 + 9 = 16$

$16 - 7 = 9$

$8 + 8 = 16$

$16 - 8 = 8$

$9 + 7 = 16$

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$10 + 6 = 16$

$16 - 10 = 6$

$11 + 5 = 16$

$16 - 11 = 5$

$12 + 4 = 16$

$16 - 12 = 4$

$13 + 3 = 16$

$16 - 13 = 3$

$14 + 2 = 16$

$16 - 14 = 2$

$15 + 1 = 16$

$16 - 15 = 1$

$16 + 0 = 16$

$16 - 16 = 0$

Number Bonds to 17

$0 + 17 = 17$

$17 - 0 = 17$

$1 + 16 = 17$

$17 - 1 = 16$

$2 + 15 = 17$

$17 - 2 = 15$

$3 + 14 = 17$

$17 - 3 = 14$

$4 + 13 = 17$

$17 - 4 = 13$

$5 + 12 = 17$

$17 - 5 = 12$

$6 + 11 = 17$

$17 - 6 = 11$

$7 + 10 = 17$

$17 - 7 = 10$

$8 + 9 = 17$

$17 - 8 = 9$

$9 + 8 = 17$

$17 - 9 = 8$

$10 + 7 = 17$

$17 - 10 = 7$

$11 + 6 = 17$

$17 - 11 = 6$

$12 + 5 = 17$

$17 - 12 = 5$

$13 + 4 = 17$

$17 - 13 = 4$

$14 + 3 = 17$

$17 - 14 = 3$

$15 + 2 = 17$

$17 - 15 = 2$

$16 + 1 = 17$

$17 - 16 = 1$

$17 + 0 = 17$

$17 - 17 = 0$

Number Bonds to 18

$0 + 18 = 18$

$18 - 0 = 18$

$1 + 17 = 18$

$18 - 1 = 17$

$2 + 16 = 18$

$18 - 2 = 16$

$3 + 15 = 18$

$18 - 3 = 15$

$4 + 14 = 18$

$18 - 4 = 14$

$5 + 13 = 18$

$18 - 5 = 13$

$6 + 12 = 18$

$18 - 6 = 12$

$7 + 11 = 18$

$18 - 7 = 11$

$8 + 10 = 18$

$18 - 8 = 10$

$9 + 9 = 18$

$18 - 9 = 9$

$10 + 8 = 18$

$18 - 10 = 8$

$11 + 7 = 18$

$18 - 11 = 7$

$12 + 6 = 18$

$18 - 12 = 6$

$13 + 5 = 18$

$18 - 13 = 5$

$14 + 4 = 18$

$18 - 14 = 4$

$15 + 3 = 18$

$18 - 15 = 3$

$16 + 2 = 18$

$18 - 16 = 2$

$17 + 1 = 18$

$18 - 17 = 1$

$18 + 0 = 18$

$18 - 18 = 0$

Number Bonds to 19

$0 + 19 = 19$

$19 - 0 = 19$

$1 + 18 = 19$

$19 - 1 = 18$

$2 + 17 = 19$

$19 - 2 = 17$

$3 + 16 = 19$

$19 - 3 = 16$

$4 + 15 = 19$

$19 - 4 = 15$

$5 + 14 = 19$

$19 - 5 = 14$

$6 + 13 = 19$

$19 - 6 = 13$

$7 + 12 = 19$

$19 - 7 = 12$

$8 + 11 = 19$

$19 - 8 = 11$

$9 + 10 = 19$

$19 - 9 = 10$

$10 + 9 = 19$

$19 - 10 = 9$

$11 + 8 = 19$

$19 - 11 = 8$

$12 + 7 = 19$

$19 - 12 = 7$

$13 + 6 = 19$

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$14 + 5 = 19$

$19 - 14 = 5$

$15 + 4 = 19$

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$19 - 16 = 3$

$17 + 2 = 19$

$19 - 17 = 2$

$18 + 1 = 19$

$19 - 18 = 1$

$19 + 0 = 19$

$19 - 19 = 0$