

Free Addition 18-20
Flash Cards (Duplex
Print)

$$20 + 1 = 21$$

$$18 + 0 =$$

$$18 + 2 = 20$$

$$19 + 0 =$$

$$2 + 19 = 21$$

$$0 + 20 =$$

$$2 + 20 = 22$$

$$1 + 18 =$$

$$18 + 3 = 21$$

$$19 + 1 =$$

$$19 + 3 = 22$$

$$20 + 1 =$$

Courtesy of
Memory-Improvement-Tips.com

$$18 + 2 =$$

$$18 + 0 = 18$$

$$2 + 19 =$$

$$19 + 0 = 19$$

$$2 + 20 =$$

$$0 + 20 = 20$$

$$18 + 3 =$$

$$1 + 18 = 19$$

$$19 + 3 =$$

$$19 + 1 = 20$$

$20 + 3 =$

$5 + 20 = 25$

$4 + 18 =$

$6 + 18 = 24$

$4 + 19 =$

$19 + 6 = 25$

$20 + 4 =$

$20 + 6 = 26$

$18 + 5 =$

$7 + 18 = 25$

$19 + 5 =$

$7 + 19 = 26$

$5 + 20 =$

$20 + 3 = 23$

$6 + 18 =$

$4 + 18 = 22$

$19 + 6 =$

$4 + 19 = 23$

$20 + 6 =$

$20 + 4 = 24$

$7 + 18 =$

$18 + 5 = 23$

$7 + 19 =$

$19 + 5 = 24$

$20 + 7 =$

$20 + 9 = 29$

$18 + 8 =$

$18 + 10 = 28$

$19 + 8 =$

$19 + 10 = 29$

$8 + 20 =$

$10 + 20 = 30$

$9 + 18 =$

$11 + 18 = 29$

$9 + 19 =$

$19 + 11 = 30$

$20 + 9 =$

$20 + 7 = 27$

$18 + 10 =$

$18 + 8 = 26$

$19 + 10 =$

$19 + 8 = 27$

$10 + 20 =$

$8 + 20 = 28$

$11 + 18 =$

$9 + 18 = 27$

$19 + 11 =$

$9 + 19 = 28$

$20 + 11 =$

$13 + 20 = 33$

$18 + 12 =$

$14 + 18 = 32$

$12 + 19 =$

$14 + 19 = 33$

$12 + 20 =$

$20 + 14 = 34$

$18 + 13 =$

$18 + 15 = 33$

$19 + 13 =$

$19 + 15 = 34$

$13 + 20 =$

$20 + 11 = 31$

$14 + 18 =$

$18 + 12 = 30$

$14 + 19 =$

$12 + 19 = 31$

$20 + 14 =$

$12 + 20 = 32$

$18 + 15 =$

$18 + 13 = 31$

$19 + 15 =$

$19 + 13 = 32$

$15 + 20 =$

$20 + 17 = 37$

$16 + 18 =$

$18 + 18 = 36$

$19 + 16 =$

$19 + 18 = 37$

$20 + 16 =$

$20 + 18 = 38$

$17 + 18 =$

$19 + 19 = 38$

$17 + 19 =$

$19 + 20 = 39$

$20 + 17 =$

$15 + 20 = 35$

$18 + 18 =$

$16 + 18 = 34$

$19 + 18 =$

$19 + 16 = 35$

$20 + 18 =$

$20 + 16 = 36$

$19 + 19 =$

$17 + 18 = 35$

$19 + 20 =$

$17 + 19 = 36$

$$20 + 20 =$$

Commutative
Property

Identity
Property

$$20 + 20 = 40$$

$$5 + 3 = 3 + 5$$

$$5 + 0 = 5$$

Free Subtraction
13-17 Flash Cards
(Duplex Print)

$$13 - 5 = 8$$

$$13 - 0 =$$

$$13 - 6 = 7$$

$$13 - 1 =$$

$$13 - 7 = 6$$

$$13 - 2 =$$

$$13 - 8 = 5$$

$$13 - 3 =$$

$$13 - 9 = 4$$

$$13 - 4 =$$

$$13 - 10 = 3$$

$$13 - 5 =$$

Courtesy of
Memory-Improvement-Tips.com

$$13 - 6 =$$

$$13 - 0 = 13$$

$$13 - 7 =$$

$$13 - 1 = 12$$

$$13 - 8 =$$

$$13 - 2 = 11$$

$$13 - 9 =$$

$$13 - 3 = 10$$

$$13 - 10 =$$

$$13 - 4 = 9$$

$13 - 11 =$

$14 - 3 = 11$

$13 - 12 =$

$14 - 4 = 10$

$13 - 13 =$

$14 - 5 = 9$

$14 - 0 =$

$14 - 6 = 8$

$14 - 1 =$

$14 - 7 = 7$

$14 - 2 =$

$14 - 8 = 6$

$14 - 3 =$

$13 - 11 = 2$

$14 - 4 =$

$13 - 12 = 1$

$14 - 5 =$

$13 - 13 = 0$

$14 - 6 =$

$14 - 0 = 14$

$14 - 7 =$

$14 - 1 = 13$

$14 - 8 =$

$14 - 2 = 12$

$14 - 9 =$

$15 - 0 = 15$

$14 - 10 =$

$15 - 1 = 14$

$14 - 11 =$

$15 - 2 = 13$

$14 - 12 =$

$15 - 3 = 12$

$14 - 13 =$

$15 - 4 = 11$

$14 - 14 =$

$15 - 5 = 10$

$15 - 0 =$

$14 - 9 = 5$

$15 - 1 =$

$14 - 10 = 4$

$15 - 2 =$

$14 - 11 = 3$

$15 - 3 =$

$14 - 12 = 2$

$15 - 4 =$

$14 - 13 = 1$

$15 - 5 =$

$14 - 14 = 0$

$15 - 6 =$

$15 - 12 = 3$

$15 - 7 =$

$15 - 13 = 2$

$15 - 8 =$

$15 - 14 = 1$

$15 - 9 =$

$15 - 15 = 0$

$15 - 10 =$

$16 - 0 = 16$

$15 - 11 =$

$16 - 1 = 15$

$15 - 12 =$

$15 - 6 = 9$

$15 - 13 =$

$15 - 7 = 8$

$15 - 14 =$

$15 - 8 = 7$

$15 - 15 =$

$15 - 9 = 6$

$16 - 0 =$

$15 - 10 = 5$

$16 - 1 =$

$15 - 11 = 4$

$16 - 2 =$

$16 - 8 = 8$

$16 - 3 =$

$16 - 9 = 7$

$16 - 4 =$

$16 - 10 = 6$

$16 - 5 =$

$16 - 11 = 5$

$16 - 6 =$

$16 - 12 = 4$

$16 - 7 =$

$16 - 13 = 3$

$16 - 8 =$

$16 - 2 = 14$

$16 - 9 =$

$16 - 3 = 13$

$16 - 10 =$

$16 - 4 = 12$

$16 - 11 =$

$16 - 5 = 11$

$16 - 12 =$

$16 - 6 = 10$

$16 - 13 =$

$16 - 7 = 9$

$16 - 14 =$

$17 - 3 = 14$

$16 - 15 =$

$17 - 4 = 13$

$16 - 16 =$

$17 - 5 = 12$

$17 - 0 =$

$17 - 6 = 11$

$17 - 1 =$

$17 - 7 = 10$

$17 - 2 =$

$17 - 8 = 9$

$17 - 3 =$

$16 - 14 = 2$

$17 - 4 =$

$16 - 15 = 1$

$17 - 5 =$

$16 - 16 = 0$

$17 - 6 =$

$17 - 0 = 17$

$17 - 7 =$

$17 - 1 = 16$

$17 - 8 =$

$17 - 2 = 15$

$17 - 9 =$

$17 - 15 = 2$

$17 - 10 =$

$17 - 16 = 1$

$17 - 11 =$

$17 - 17 = 0$

$17 - 12 =$

The "terms"

$17 - 13 =$

The
"difference"

$17 - 14 =$

Addition

$17 - 15 =$

$17 - 9 = 8$

$17 - 16 =$

$17 - 10 = 7$

$17 - 17 =$

$17 - 11 = 6$

Numbers to
be subtracted

$17 - 12 = 5$

Result of
subtraction

$17 - 13 = 4$

Inverse of
subtraction

$17 - 14 = 3$

Free Subtraction
0-12 Flash Cards
(Duplex Print)

$$5 - 0 = 5$$

$$0 - 0 =$$

$$6 - 0 = 6$$

$$1 - 0 =$$

$$7 - 0 = 7$$

$$2 - 0 =$$

$$8 - 0 = 8$$

$$3 - 0 =$$

$$9 - 0 = 9$$

$$4 - 0 =$$

$$10 - 0 = 10$$

$$5 - 0 =$$

Courtesy of
Memory-Improvement-Tips.com

$$6 - 0 =$$

$$0 - 0 = 0$$

$$7 - 0 =$$

$$1 - 0 = 1$$

$$8 - 0 =$$

$$2 - 0 = 2$$

$$9 - 0 =$$

$$3 - 0 = 3$$

$$10 - 0 =$$

$$4 - 0 = 4$$

$11 - 0 =$

$5 - 1 = 4$

$12 - 0 =$

$6 - 1 = 5$

$1 - 1 =$

$7 - 1 = 6$

$2 - 1 =$

$8 - 1 = 7$

$3 - 1 =$

$9 - 1 = 8$

$4 - 1 =$

$10 - 1 = 9$

$5 - 1 =$

$11 - 0 = 11$

$6 - 1 =$

$12 - 0 = 12$

$7 - 1 =$

$1 - 1 = 0$

$8 - 1 =$

$2 - 1 = 1$

$9 - 1 =$

$3 - 1 = 2$

$10 - 1 =$

$4 - 1 = 3$

$11 - 1 =$

$6 - 2 = 4$

$12 - 1 =$

$7 - 2 = 5$

$2 - 2 =$

$8 - 2 = 6$

$3 - 2 =$

$9 - 2 = 7$

$4 - 2 =$

$10 - 2 = 8$

$5 - 2 =$

$11 - 2 = 9$

$6 - 2 =$

$11 - 1 = 10$

$7 - 2 =$

$12 - 1 = 11$

$8 - 2 =$

$2 - 2 = 0$

$9 - 2 =$

$3 - 2 = 1$

$10 - 2 =$

$4 - 2 = 2$

$11 - 2 =$

$5 - 2 = 3$

$12 - 2 =$

$8 - 3 = 5$

$3 - 3 =$

$9 - 3 = 6$

$4 - 3 =$

$10 - 3 = 7$

$5 - 3 =$

$11 - 3 = 8$

$6 - 3 =$

$12 - 3 = 9$

$7 - 3 =$

$4 - 4 = 0$

$$8 - 3 =$$

$$12 - 2 = 10$$

$$9 - 3 =$$

$$3 - 3 = 0$$

$$10 - 3 =$$

$$4 - 3 = 1$$

$$11 - 3 =$$

$$5 - 3 = 2$$

$$12 - 3 =$$

$$6 - 3 = 3$$

$$4 - 4 =$$

$$7 - 3 = 4$$

$5 - 4 =$

$11 - 4 = 7$

$6 - 4 =$

$12 - 4 = 8$

$7 - 4 =$

$5 - 5 = 0$

$8 - 4 =$

$6 - 5 = 1$

$9 - 4 =$

$7 - 5 = 2$

$10 - 4 =$

$8 - 5 = 3$

$11 - 4 =$

$5 - 4 = 1$

$12 - 4 =$

$6 - 4 = 2$

$5 - 5 =$

$7 - 4 = 3$

$6 - 5 =$

$8 - 4 = 4$

$7 - 5 =$

$9 - 4 = 5$

$8 - 5 =$

$10 - 4 = 6$

$9 - 5 =$

$8 - 6 = 2$

$10 - 5 =$

$9 - 6 = 3$

$11 - 5 =$

$10 - 6 = 4$

$12 - 5 =$

$11 - 6 = 5$

$6 - 6 =$

$12 - 6 = 6$

$7 - 6 =$

$7 - 7 = 0$

$8 - 6 =$

$9 - 5 = 4$

$9 - 6 =$

$10 - 5 = 5$

$10 - 6 =$

$11 - 5 = 6$

$11 - 6 =$

$12 - 5 = 7$

$12 - 6 =$

$6 - 6 = 0$

$7 - 7 =$

$7 - 6 = 1$

$8 - 7 =$

$9 - 8 = 1$

$9 - 7 =$

$10 - 8 = 2$

$10 - 7 =$

$11 - 8 = 3$

$11 - 7 =$

$12 - 8 = 4$

$12 - 7 =$

$9 - 9 = 0$

$8 - 8 =$

$10 - 9 = 1$

$9 - 8 =$

$8 - 7 = 1$

$10 - 8 =$

$9 - 7 = 2$

$11 - 8 =$

$10 - 7 = 3$

$12 - 8 =$

$11 - 7 = 4$

$9 - 9 =$

$12 - 7 = 5$

$10 - 9 =$

$8 - 8 = 0$

$11 - 9 =$

$12 - 11 = 1$

$12 - 9 =$

$12 - 12 = 0$

$10 - 10 =$

the Terms

$11 - 10 =$

the Difference

$12 - 10 =$

Addition

$11 - 11 =$

$$12 - 11 =$$

$$11 - 9 = 2$$

$$12 - 12 =$$

$$12 - 9 = 3$$

Numbers to
be Subtracted

$$10 - 10 = 0$$

Result of
Subtraction

$$11 - 10 = 1$$

Inverse of
Subtraction

$$12 - 10 = 2$$

$$11 - 11 = 0$$

Free Subtraction
Flash Cards 18-20
(Duplex Print)

$$18 - 5 = 13$$

$$18 - 0 =$$

$$18 - 6 = 12$$

$$18 - 1 =$$

$$18 - 7 = 11$$

$$18 - 2 =$$

$$18 - 8 = 10$$

$$18 - 3 =$$

$$18 - 9 = 9$$

$$18 - 4 =$$

$$18 - 10 = 8$$

$18 - 5 =$

Courtesy of
Memory-Improvement-Tips.com

$18 - 6 =$

$18 - 0 = 18$

$18 - 7 =$

$18 - 1 = 17$

$18 - 8 =$

$18 - 2 = 16$

$18 - 9 =$

$18 - 3 = 15$

$18 - 10 =$

$18 - 4 = 14$

$18 - 11 =$

$18 - 17 = 1$

$18 - 12 =$

$18 - 18 = 0$

$18 - 13 =$

$19 - 0 = 19$

$18 - 14 =$

$19 - 1 = 18$

$18 - 15 =$

$19 - 2 = 17$

$18 - 16 =$

$19 - 3 = 16$

$18 - 17 =$

$18 - 11 = 7$

$18 - 18 =$

$18 - 12 = 6$

$19 - 0 =$

$18 - 13 = 5$

$19 - 1 =$

$18 - 14 = 4$

$19 - 2 =$

$18 - 15 = 3$

$19 - 3 =$

$18 - 16 = 2$

$19 - 4 =$

$19 - 10 = 9$

$19 - 5 =$

$19 - 11 = 8$

$19 - 6 =$

$19 - 12 = 7$

$19 - 7 =$

$19 - 13 = 6$

$19 - 8 =$

$19 - 14 = 5$

$19 - 9 =$

$19 - 15 = 4$

$19 - 10 =$

$19 - 4 = 15$

$19 - 11 =$

$19 - 5 = 14$

$19 - 12 =$

$19 - 6 = 13$

$19 - 13 =$

$19 - 7 = 12$

$19 - 14 =$

$19 - 8 = 11$

$19 - 15 =$

$19 - 9 = 10$

$19 - 16 =$

$20 - 2 = 18$

$19 - 17 =$

$20 - 3 = 17$

$19 - 18 =$

$20 - 4 = 16$

$19 - 19 =$

$20 - 5 = 15$

$20 - 0 =$

$20 - 6 = 14$

$20 - 1 =$

$20 - 7 = 13$

$20 - 2 =$

$19 - 16 = 3$

$20 - 3 =$

$19 - 17 = 2$

$20 - 4 =$

$19 - 18 = 1$

$20 - 5 =$

$19 - 19 = 0$

$20 - 6 =$

$20 - 0 = 20$

$20 - 7 =$

$20 - 1 = 19$

$20 - 8 =$

$20 - 14 = 6$

$20 - 9 =$

$20 - 15 = 5$

$20 - 10 =$

$20 - 16 = 4$

$20 - 11 =$

$20 - 17 = 3$

$20 - 12 =$

$20 - 18 = 2$

$20 - 13 =$

$20 - 19 = 1$

$20 - 14 =$

$20 - 8 = 12$

$20 - 15 =$

$20 - 9 = 11$

$20 - 16 =$

$20 - 10 = 10$

$20 - 17 =$

$20 - 11 = 9$

$20 - 18 =$

$20 - 12 = 8$

$20 - 19 =$

$20 - 13 = 7$

$$20 - 20 =$$

Inverse of
Subtraction

Result of
Subtraction

Numbers to
be subtracted

$$20 - 20 = 0$$

Addition

The
Difference

Minuend -
Subtrahend

Free Multiplication
0-12 Flash Cards
(Duplex Print)

$$5 \times 0 = 0$$

$$0 \times 0 =$$

$$0 \times 6 = 0$$

$$1 \times 0 =$$

$$0 \times 7 = 0$$

$$0 \times 2 =$$

$$8 \times 0 = 0$$

$$0 \times 3 =$$

$$9 \times 0 = 0$$

$$4 \times 0 =$$

$$0 \times 10 = 0$$

$$5 \times 0 =$$

Courtesy of
Memory-Improvement-Tips.com

$$0 \times 6 =$$

$$0 \times 0 = 0$$

$$0 \times 7 =$$

$$1 \times 0 = 0$$

$$8 \times 0 =$$

$$0 \times 2 = 0$$

$$9 \times 0 =$$

$$0 \times 3 = 0$$

$$0 \times 10 =$$

$$4 \times 0 = 0$$

$0 \times 11 =$

$5 \times 1 = 5$

$12 \times 0 =$

$6 \times 1 = 6$

$1 \times 1 =$

$1 \times 7 = 7$

$2 \times 1 =$

$1 \times 8 = 8$

$1 \times 3 =$

$9 \times 1 = 9$

$1 \times 4 =$

$10 \times 1 = 10$

$5 \times 1 =$

$0 \times 11 = 0$

$6 \times 1 =$

$12 \times 0 = 0$

$1 \times 7 =$

$1 \times 1 = 1$

$1 \times 8 =$

$2 \times 1 = 2$

$9 \times 1 =$

$1 \times 3 = 3$

$10 \times 1 =$

$1 \times 4 = 4$

$1 \times 11 =$

$2 \times 6 = 12$

$1 \times 12 =$

$7 \times 2 = 14$

$2 \times 2 =$

$8 \times 2 = 16$

$3 \times 2 =$

$2 \times 9 = 18$

$4 \times 2 =$

$2 \times 10 = 20$

$2 \times 5 =$

$11 \times 2 = 22$

$2 \times 6 =$

$1 \times 11 = 11$

$7 \times 2 =$

$1 \times 12 = 12$

$8 \times 2 =$

$2 \times 2 = 4$

$2 \times 9 =$

$3 \times 2 = 6$

$2 \times 10 =$

$4 \times 2 = 8$

$11 \times 2 =$

$2 \times 5 = 10$

$12 \times 2 =$

$3 \times 8 = 24$

$3 \times 3 =$

$9 \times 3 = 27$

$3 \times 4 =$

$10 \times 3 = 30$

$5 \times 3 =$

$3 \times 11 = 33$

$6 \times 3 =$

$3 \times 12 = 36$

$3 \times 7 =$

$4 \times 4 = 16$

$3 \times 8 =$

$12 \times 2 = 24$

$9 \times 3 =$

$3 \times 3 = 9$

$10 \times 3 =$

$3 \times 4 = 12$

$3 \times 11 =$

$5 \times 3 = 15$

$3 \times 12 =$

$6 \times 3 = 18$

$4 \times 4 =$

$3 \times 7 = 21$

$4 \times 5 =$

$11 \times 4 = 44$

$4 \times 6 =$

$12 \times 4 = 48$

$7 \times 4 =$

$5 \times 5 = 25$

$8 \times 4 =$

$6 \times 5 = 30$

$4 \times 9 =$

$7 \times 5 = 35$

$4 \times 10 =$

$5 \times 8 = 40$

$11 \times 4 =$

$4 \times 5 = 20$

$12 \times 4 =$

$4 \times 6 = 24$

$5 \times 5 =$

$7 \times 4 = 28$

$6 \times 5 =$

$8 \times 4 = 32$

$7 \times 5 =$

$4 \times 9 = 36$

$5 \times 8 =$

$4 \times 10 = 40$

$9 \times 5 =$

$6 \times 8 = 48$

$10 \times 5 =$

$9 \times 6 = 54$

$5 \times 11 =$

$10 \times 6 = 60$

$5 \times 12 =$

$6 \times 11 = 66$

$6 \times 6 =$

$6 \times 12 = 72$

$6 \times 7 =$

$7 \times 7 = 49$

$6 \times 8 =$

$9 \times 5 = 45$

$9 \times 6 =$

$10 \times 5 = 50$

$10 \times 6 =$

$5 \times 11 = 55$

$6 \times 11 =$

$5 \times 12 = 60$

$6 \times 12 =$

$6 \times 6 = 36$

$7 \times 7 =$

$6 \times 7 = 42$

$7 \times 8 =$

$8 \times 9 = 72$

$9 \times 7 =$

$10 \times 8 = 80$

$10 \times 7 =$

$11 \times 8 = 88$

$7 \times 11 =$

$12 \times 8 = 96$

$7 \times 12 =$

$9 \times 9 = 81$

$8 \times 8 =$

$10 \times 9 = 90$

$8 \times 9 =$

$7 \times 8 = 56$

$10 \times 8 =$

$9 \times 7 = 63$

$11 \times 8 =$

$10 \times 7 = 70$

$12 \times 8 =$

$7 \times 11 = 77$

$9 \times 9 =$

$7 \times 12 = 84$

$10 \times 9 =$

$8 \times 8 = 64$

$$11 \times 9 =$$

$$12 \times 11 = 132$$

$$9 \times 12 =$$

$$12 \times 12 = 144$$

$$10 \times 10 =$$

Factors

$$11 \times 10 =$$

Product

$$10 \times 12 =$$

Division

$$11 \times 11 =$$

$$3 \times 5 = 5 \times 3$$

$$12 \times 11 =$$

$$11 \times 9 = 99$$

$$12 \times 12 =$$

$$9 \times 12 = 108$$

Numbers to
be Multiplied

$$10 \times 10 = 100$$

Result of
Multiplication

$$11 \times 10 = 110$$

Inverse of
Multiplication

$$10 \times 12 = 120$$

Commutative
Property

$$11 \times 11 = 121$$

Free Addition 13-17
Flash Cards (Duplex
Print)

$$13 + 1 = 14$$

$$13 + 0 =$$

$$14 + 1 = 15$$

$$14 + 0 =$$

$$1 + 15 = 16$$

$$0 + 15 =$$

$$1 + 16 = 17$$

$$0 + 16 =$$

$$17 + 1 = 18$$

$$17 + 0 =$$

$$13 + 2 = 15$$

$$13 + 1 =$$

Courtesy of
Memory-Improvement-Tips.com

$$14 + 1 =$$

$$13 + 0 = 13$$

$$1 + 15 =$$

$$14 + 0 = 14$$

$$1 + 16 =$$

$$0 + 15 = 15$$

$$17 + 1 =$$

$$0 + 16 = 16$$

$$13 + 2 =$$

$$17 + 0 = 17$$

$14 + 2 =$

$3 + 15 = 18$

$2 + 15 =$

$3 + 16 = 19$

$2 + 16 =$

$17 + 3 = 20$

$17 + 2 =$

$13 + 4 = 17$

$13 + 3 =$

$14 + 4 = 18$

$14 + 3 =$

$4 + 15 = 19$

$3 + 15 =$

$14 + 2 = 16$

$3 + 16 =$

$2 + 15 = 17$

$17 + 3 =$

$2 + 16 = 18$

$13 + 4 =$

$17 + 2 = 19$

$14 + 4 =$

$13 + 3 = 16$

$4 + 15 =$

$14 + 3 = 17$

$4 + 16 =$

$17 + 5 = 22$

$17 + 4 =$

$13 + 6 = 19$

$13 + 5 =$

$14 + 6 = 20$

$14 + 5 =$

$6 + 15 = 21$

$5 + 15 =$

$6 + 16 = 22$

$5 + 16 =$

$17 + 6 = 23$

$17 + 5 =$

$4 + 16 = 20$

$13 + 6 =$

$17 + 4 = 21$

$14 + 6 =$

$13 + 5 = 18$

$6 + 15 =$

$14 + 5 = 19$

$6 + 16 =$

$5 + 15 = 20$

$17 + 6 =$

$5 + 16 = 21$

$13 + 7 =$

$14 + 8 = 22$

$14 + 7 =$

$8 + 15 = 23$

$7 + 15 =$

$8 + 16 = 24$

$7 + 16 =$

$17 + 8 = 25$

$17 + 7 =$

$13 + 9 = 22$

$13 + 8 =$

$14 + 9 = 23$

$14 + 8 =$

$13 + 7 = 20$

$8 + 15 =$

$14 + 7 = 21$

$8 + 16 =$

$7 + 15 = 22$

$17 + 8 =$

$7 + 16 = 23$

$13 + 9 =$

$17 + 7 = 24$

$14 + 9 =$

$13 + 8 = 21$

$9 + 15 =$

$10 + 16 = 26$

$9 + 16 =$

$17 + 10 = 27$

$17 + 9 =$

$13 + 11 = 24$

$13 + 10 =$

$14 + 11 = 25$

$14 + 10 =$

$11 + 15 = 26$

$10 + 15 =$

$11 + 16 = 27$

$10 + 16 =$

$9 + 15 = 24$

$17 + 10 =$

$9 + 16 = 25$

$13 + 11 =$

$17 + 9 = 26$

$14 + 11 =$

$13 + 10 = 23$

$11 + 15 =$

$14 + 10 = 24$

$11 + 16 =$

$10 + 15 = 25$

$17 + 11 =$

$13 + 13 = 26$

$13 + 12 =$

$14 + 13 = 27$

$14 + 12 =$

$13 + 15 = 28$

$12 + 15 =$

$13 + 16 = 29$

$12 + 16 =$

$17 + 13 = 30$

$17 + 12 =$

$14 + 14 = 28$

$13 + 13 =$

$17 + 11 = 28$

$14 + 13 =$

$13 + 12 = 25$

$13 + 15 =$

$14 + 12 = 26$

$13 + 16 =$

$12 + 15 = 27$

$17 + 13 =$

$12 + 16 = 28$

$14 + 14 =$

$17 + 12 = 29$

$$15 + 14 =$$

$$16 + 16 = 32$$

$$14 + 16 =$$

$$16 + 17 = 33$$

$$14 + 17 =$$

$$17 + 17 = 34$$

$$15 + 15 =$$

Addends

$$16 + 15 =$$

Sum

$$15 + 17 =$$

$$3 + 5 = 5 + 3$$

$$16 + 16 =$$

$$15 + 14 = 29$$

$$16 + 17 =$$

$$14 + 16 = 30$$

$$17 + 17 =$$

$$14 + 17 = 31$$

Numbers to
be Added

$$15 + 15 = 30$$

Result of
Addition

$$16 + 15 = 31$$

Commutative
Property

$$15 + 17 = 32$$