

Missing Numbers in Equations (A)

What value does each shape represent?

$\blacklozenge + 9 = 11$

$\ast + 9 = 18$

$\odot + 2 = 9$

$\heartsuit + 4 = 8$

$\boxplus + 2 = 6$

$7 + \nabla = 16$

$\odot + 2 = 5$

$4 + \times = 11$

$\odot + 5 = 6$

$\Delta + 2 = 5$

$\diamond + 7 = 11$

$4 + \smile = 8$

$8 + \Delta = 11$

$\square + 5 = 9$

$4 + \smile = 7$

$7 + \smile = 11$

$5 + \odot = 11$

$4 + \blacksquare = 6$

$\boxplus + 1 = 6$

$\times + 5 = 8$

$\times + 5 = 7$

$\square + 5 = 7$

$9 + \blacksquare = 13$

$2 + \diamond = 7$

$4 + \square = 9$

$\nabla + 8 = 11$

$\square + 3 = 4$

$5 + \blacksquare = 10$

$1 + \diamond = 2$

$\square + 1 = 6$

$\square + 9 = 16$

$\ast + 2 = 10$

$1 + \ast = 2$

$\spadesuit + 3 = 10$

$\boxplus + 3 = 7$

$7 + \blacklozenge = 16$

$\smile + 5 = 12$

$\square + 3 = 8$

$\odot + 1 = 5$

$\Delta + 6 = 9$

Missing Numbers in Equations (A) Answers

What value does each shape represent?

$$\blacklozenge + 9 = 11$$

$$\blacklozenge = 2$$

$$\ast + 9 = 18$$

$$\ast = 9$$

$$\odot + 2 = 9$$

$$\odot = 7$$

$$\heartsuit + 4 = 8$$

$$\heartsuit = 4$$

$$\boxplus + 2 = 6$$

$$\boxplus = 4$$

$$7 + \nabla = 16$$

$$\nabla = 9$$

$$\odot + 2 = 5$$

$$\odot = 3$$

$$4 + \times = 11$$

$$\times = 7$$

$$\odot + 5 = 6$$

$$\odot = 1$$

$$\Delta + 2 = 5$$

$$\Delta = 3$$

$$\diamond + 7 = 11$$

$$\diamond = 4$$

$$4 + \frown = 8$$

$$\frown = 4$$

$$8 + \Delta = 11$$

$$\Delta = 3$$

$$\square + 5 = 9$$

$$\square = 4$$

$$4 + \frown = 7$$

$$\frown = 3$$

$$7 + \frown = 11$$

$$\frown = 4$$

$$5 + \odot = 11$$

$$\odot = 6$$

$$4 + \blacksquare = 6$$

$$\blacksquare = 2$$

$$\boxplus + 1 = 6$$

$$\boxplus = 5$$

$$\times + 5 = 8$$

$$\times = 3$$

$$\times + 5 = 7$$

$$\times = 2$$

$$\square + 5 = 7$$

$$\square = 2$$

$$9 + \blacksquare = 13$$

$$\blacksquare = 4$$

$$2 + \diamond = 7$$

$$\diamond = 5$$

$$4 + \square = 9$$

$$\square = 5$$

$$\nabla + 8 = 11$$

$$\nabla = 3$$

$$\square + 3 = 4$$

$$\square = 1$$

$$5 + \blacksquare = 10$$

$$\blacksquare = 5$$

$$1 + \diamond = 2$$

$$\diamond = 1$$

$$\square + 1 = 6$$

$$\square = 5$$

$$\square + 9 = 16$$

$$\square = 7$$

$$\ast + 2 = 10$$

$$\ast = 8$$

$$1 + \ast = 2$$

$$\ast = 1$$

$$\spadesuit + 3 = 10$$

$$\spadesuit = 7$$

$$\boxplus + 3 = 7$$

$$\boxplus = 4$$

$$7 + \blacklozenge = 16$$

$$\blacklozenge = 9$$

$$\frown + 5 = 12$$

$$\frown = 7$$

$$\square + 3 = 8$$

$$\square = 5$$

$$\odot + 1 = 5$$

$$\odot = 4$$

$$\Delta + 6 = 9$$

$$\Delta = 3$$

Missing Numbers in Equations (B)

What value does each shape represent?

$$\square + 3 = 10$$

$$6 + \diamond = 8$$

$$\odot + 2 = 6$$

$$5 + \times = 6$$

$$\times + 4 = 12$$

$$3 + \square = 9$$

$$5 + \square = 10$$

$$3 + \odot = 10$$

$$\diamond + 3 = 7$$

$$2 + \boxplus = 9$$

$$\Delta + 2 = 6$$

$$1 + \star = 9$$

$$\star + 4 = 11$$

$$\square + 2 = 9$$

$$\odot + 8 = 12$$

$$1 + \square = 5$$

$$6 + \spadesuit = 7$$

$$4 + \diamond = 8$$

$$8 + \square = 14$$

$$\blacklozenge + 2 = 9$$

$$\square + 9 = 18$$

$$5 + \heartsuit = 8$$

$$\blacklozenge + 9 = 11$$

$$9 + \frown = 18$$

$$9 + \blacklozenge = 16$$

$$\square + 4 = 6$$

$$2 + \square = 4$$

$$\square + 2 = 10$$

$$3 + \star = 10$$

$$1 + \times = 6$$

$$\boxplus + 9 = 10$$

$$9 + \nabla = 17$$

$$4 + \square = 9$$

$$3 + \square = 4$$

$$\square + 3 = 8$$

$$\blacklozenge + 7 = 13$$

$$3 + \star = 7$$

$$5 + \blacklozenge = 13$$

$$\boxplus + 1 = 6$$

$$9 + \square = 16$$

Missing Numbers in Equations (B)

What value does each shape represent?

$$\square + 3 = 10$$

$$\square = 7$$

$$6 + \diamond = 8$$

$$\diamond = 2$$

$$\odot + 2 = 6$$

$$\odot = 4$$

$$5 + \times = 6$$

$$\times = 1$$

$$\times + 4 = 12$$

$$\times = 8$$

$$3 + \square = 9$$

$$\square = 6$$

$$5 + \square = 10$$

$$\square = 5$$

$$3 + \odot = 10$$

$$\odot = 7$$

$$\diamond + 3 = 7$$

$$\diamond = 4$$

$$2 + \boxplus = 9$$

$$\boxplus = 7$$

$$\Delta + 2 = 6$$

$$\Delta = 4$$

$$1 + \star = 9$$

$$\star = 8$$

$$\star + 4 = 11$$

$$\star = 7$$

$$\square + 2 = 9$$

$$\square = 7$$

$$\odot + 8 = 12$$

$$\odot = 4$$

$$1 + \square = 5$$

$$\square = 4$$

$$6 + \spadesuit = 7$$

$$\spadesuit = 1$$

$$4 + \diamond = 8$$

$$\diamond = 4$$

$$8 + \square = 14$$

$$\square = 6$$

$$\blacklozenge + 2 = 9$$

$$\blacklozenge = 7$$

$$\square + 9 = 18$$

$$\square = 9$$

$$5 + \heartsuit = 8$$

$$\heartsuit = 3$$

$$\blacklozenge + 9 = 11$$

$$\blacklozenge = 2$$

$$9 + \frown = 18$$

$$\frown = 9$$

$$9 + \blacklozenge = 16$$

$$\blacklozenge = 7$$

$$\square + 4 = 6$$

$$\square = 2$$

$$2 + \square = 4$$

$$\square = 2$$

$$\square + 2 = 10$$

$$\square = 8$$

$$3 + \star = 10$$

$$\star = 7$$

$$1 + \times = 6$$

$$\times = 5$$

$$\boxplus + 9 = 10$$

$$\boxplus = 1$$

$$9 + \nabla = 17$$

$$\nabla = 8$$

$$4 + \square = 9$$

$$\square = 5$$

$$3 + \square = 4$$

$$\square = 1$$

$$\square + 3 = 8$$

$$\square = 5$$

$$\blacklozenge + 7 = 13$$

$$\blacklozenge = 6$$

$$3 + \star = 7$$

$$\star = 4$$

$$5 + \blacklozenge = 13$$

$$\blacklozenge = 8$$

$$\boxplus + 1 = 6$$

$$\boxplus = 5$$

$$9 + \square = 16$$

$$\square = 7$$

Missing Numbers in Equations (C)

What value does each shape represent?

$9 + \diamond = 14$

$\ast + 7 = 11$

$4 + \blacklozenge = 12$

$4 + \boxplus = 7$

$3 + \odot = 10$

$4 + \boxplus = 9$

$\blacksquare + 3 = 11$

$5 + \boxplus = 7$

$4 + \odot = 13$

$2 + \odot = 10$

$2 + \odot = 7$

$8 + \odot = 11$

$5 + \boxplus = 8$

$9 + \square = 18$

$\boxplus + 3 = 5$

$4 + \Delta = 12$

$3 + \odot = 4$

$\square + 6 = 7$

$3 + \square = 12$

$8 + \square = 17$

$8 + \odot = 9$

$3 + \ast = 7$

$\odot + 4 = 6$

$\square + 9 = 13$

$\ast + 3 = 11$

$\ast + 9 = 16$

$\diamond + 4 = 9$

$5 + \odot = 14$

$9 + \nabla = 15$

$1 + \boxplus = 8$

$\square + 4 = 6$

$\blacksquare + 2 = 8$

$3 + \odot = 9$

$7 + \times = 12$

$\square + 2 = 8$

$\odot + 5 = 10$

$\nabla + 8 = 11$

$\boxplus + 8 = 17$

$1 + \Delta = 6$

$8 + \boxplus = 9$

Missing Numbers in Equations (C)

What value does each shape represent?

$9 + \diamond = 14$

$\diamond = 5$

$\ast + 7 = 11$

$\ast = 4$

$4 + \blacklozenge = 12$

$\blacklozenge = 8$

$4 + \boxplus = 7$

$\boxplus = 3$

$3 + \star = 10$

$\star = 7$

$4 + \boxplus = 9$

$\boxplus = 5$

$\blacksquare + 3 = 11$

$\blacksquare = 8$

$5 + \boxplus = 7$

$\boxplus = 2$

$4 + \star = 13$

$\star = 9$

$2 + \star = 10$

$\star = 8$

$2 + \odot = 7$

$\odot = 5$

$8 + \odot = 11$

$\odot = 3$

$5 + \boxplus = 8$

$\boxplus = 3$

$9 + \square = 18$

$\square = 9$

$\boxplus + 3 = 5$

$\boxplus = 2$

$4 + \Delta = 12$

$\Delta = 8$

$3 + \odot = 4$

$\odot = 1$

$\square + 6 = 7$

$\square = 1$

$3 + \square = 12$

$\square = 9$

$8 + \square = 17$

$\square = 9$

$8 + \star = 9$

$\star = 1$

$3 + \ast = 7$

$\ast = 4$

$\star + 4 = 6$

$\star = 2$

$\square + 9 = 13$

$\square = 4$

$\ast + 3 = 11$

$\ast = 8$

$\ast + 9 = 16$

$\ast = 7$

$\diamond + 4 = 9$

$\diamond = 5$

$5 + \star = 14$

$\star = 9$

$9 + \nabla = 15$

$\nabla = 6$

$1 + \boxplus = 8$

$\boxplus = 7$

$\square + 4 = 6$

$\square = 2$

$\blacksquare + 2 = 8$

$\blacksquare = 6$

$3 + \odot = 9$

$\odot = 6$

$7 + \times = 12$

$\times = 5$

$\square + 2 = 8$

$\square = 6$

$\star + 5 = 10$

$\star = 5$

$\nabla + 8 = 11$

$\nabla = 3$

$\boxplus + 8 = 17$

$\boxplus = 9$

$1 + \Delta = 6$

$\Delta = 5$

$8 + \boxplus = 9$

$\boxplus = 1$

Missing Numbers in Equations (D)

What value does each shape represent?

$4 + \square = 10$

$\odot + 3 = 7$

$\square + 7 = 15$

$\blacksquare + 8 = 11$

$3 + \square = 9$

$\blacklozenge + 6 = 15$

$\odot + 5 = 13$

$5 + \square = 12$

$\odot + 6 = 14$

$\spadesuit + 1 = 8$

$\spadesuit + 5 = 10$

$\heartsuit + 7 = 13$

$7 + \square = 15$

$\odot + 7 = 15$

$\diamond + 7 = 12$

$2 + * = 4$

$9 + \blacklozenge = 18$

$\square + 2 = 9$

$9 + * = 12$

$3 + \square = 7$

$\square + 4 = 10$

$1 + \nabla = 8$

$\spadesuit + 3 = 5$

$\square + 6 = 10$

$\times + 1 = 3$

$\square + 8 = 17$

$5 + \odot = 11$

$\square + 9 = 17$

$5 + \frown = 7$

$\diamond + 2 = 9$

$\blacksquare + 4 = 8$

$\diamond + 1 = 3$

$\times + 5 = 8$

$\nabla + 5 = 9$

$* + 8 = 11$

$3 + \square = 11$

$7 + \Delta = 10$

$\times + 3 = 11$

$5 + \odot = 12$

$\times + 5 = 10$

Missing Numbers in Equations (D)

What value does each shape represent?

$4 + \square = 10$

$\square = 6$

$\star + 3 = 7$

$\star = 4$

$\square + 7 = 15$

$\square = 8$

$\blacksquare + 8 = 11$

$\blacksquare = 3$

$3 + \square = 9$

$\square = 6$

$\blacklozenge + 6 = 15$

$\blacklozenge = 9$

$\star + 5 = 13$

$\star = 8$

$5 + \square = 12$

$\square = 7$

$\odot + 6 = 14$

$\odot = 8$

$\spadesuit + 1 = 8$

$\spadesuit = 7$

$\spadesuit + 5 = 10$

$\spadesuit = 5$

$\heartsuit + 7 = 13$

$\heartsuit = 6$

$7 + \square = 15$

$\square = 8$

$\odot + 7 = 15$

$\odot = 8$

$\diamond + 7 = 12$

$\diamond = 5$

$2 + \ast = 4$

$\ast = 2$

$9 + \blacklozenge = 18$

$\blacklozenge = 9$

$\square + 2 = 9$

$\square = 7$

$9 + \ast = 12$

$\ast = 3$

$3 + \square = 7$

$\square = 4$

$\square + 4 = 10$

$\square = 6$

$1 + \nabla = 8$

$\nabla = 7$

$\spadesuit + 3 = 5$

$\spadesuit = 2$

$\square + 6 = 10$

$\square = 4$

$\boxtimes + 1 = 3$

$\boxtimes = 2$

$\square + 8 = 17$

$\square = 9$

$5 + \odot = 11$

$\odot = 6$

$\square + 9 = 17$

$\square = 8$

$5 + \frown = 7$

$\frown = 2$

$\diamond + 2 = 9$

$\diamond = 7$

$\blacksquare + 4 = 8$

$\blacksquare = 4$

$\diamond + 1 = 3$

$\diamond = 2$

$\boxtimes + 5 = 8$

$\boxtimes = 3$

$\nabla + 5 = 9$

$\nabla = 4$

$\ast + 8 = 11$

$\ast = 3$

$3 + \square = 11$

$\square = 8$

$7 + \Delta = 10$

$\Delta = 3$

$\boxtimes + 3 = 11$

$\boxtimes = 8$

$5 + \odot = 12$

$\odot = 7$

$\boxtimes + 5 = 10$

$\boxtimes = 5$

Missing Numbers in Equations (E)

What value does each shape represent?

$2 + \spadesuit = 8$

$2 + \blacklozenge = 11$

$6 + * = 13$

$\diamond + 1 = 9$

$6 + \spadesuit = 11$

$6 + \odot = 10$

$1 + \square = 9$

$5 + \heartsuit = 6$

$4 + \blacklozenge = 13$

$\Delta + 2 = 7$

$5 + \triangleup = 11$

$\square + 8 = 15$

$9 + \spadesuit = 10$

$4 + \square = 9$

$8 + * = 12$

$\Delta + 2 = 4$

$2 + \square = 4$

$1 + \diamond = 2$

$\heartsuit + 2 = 9$

$\triangleup + 2 = 3$

$5 + \nabla = 14$

$6 + \frown = 10$

$5 + \spadesuit = 7$

$2 + \square = 7$

$\diamond + 8 = 16$

$1 + \blacksquare = 7$

$\diamond + 8 = 15$

$5 + \diamond = 13$

$8 + \spadesuit = 12$

$4 + \square = 7$

$8 + \square = 15$

$* + 6 = 9$

$1 + \square = 5$

$1 + \odot = 3$

$\triangleup + 2 = 5$

$\square + 1 = 7$

$\heartsuit + 3 = 5$

$6 + \square = 12$

$* + 6 = 15$

$\times + 8 = 11$

Missing Numbers in Equations (E)

What value does each shape represent?

$2 + \spadesuit = 8$

$\spadesuit = 6$

$2 + \blacklozenge = 11$

$\blacklozenge = 9$

$6 + \ast = 13$

$\ast = 7$

$\diamond + 1 = 9$

$\diamond = 8$

$6 + \spadesuit = 11$

$\spadesuit = 5$

$6 + \odot = 10$

$\odot = 4$

$1 + \square = 9$

$\square = 8$

$5 + \heartsuit = 6$

$\heartsuit = 1$

$4 + \blacklozenge = 13$

$\blacklozenge = 9$

$\triangle + 2 = 7$

$\triangle = 5$

$5 + \triangle = 11$

$\triangle = 6$

$\square + 8 = 15$

$\square = 7$

$9 + \spadesuit = 10$

$\spadesuit = 1$

$4 + \square = 9$

$\square = 5$

$8 + \ast = 12$

$\ast = 4$

$\triangle + 2 = 4$

$\triangle = 2$

$2 + \square = 4$

$\square = 2$

$1 + \diamond = 2$

$\diamond = 1$

$\heartsuit + 2 = 9$

$\heartsuit = 7$

$\triangle + 2 = 3$

$\triangle = 1$

$5 + \nabla = 14$

$\nabla = 9$

$6 + \frown = 10$

$\frown = 4$

$5 + \spadesuit = 7$

$\spadesuit = 2$

$2 + \square = 7$

$\square = 5$

$\diamond + 8 = 16$

$\diamond = 8$

$1 + \blacksquare = 7$

$\blacksquare = 6$

$\diamond + 8 = 15$

$\diamond = 7$

$5 + \diamond = 13$

$\diamond = 8$

$8 + \spadesuit = 12$

$\spadesuit = 4$

$4 + \square = 7$

$\square = 3$

$8 + \square = 15$

$\square = 7$

$\ast + 6 = 9$

$\ast = 3$

$1 + \square = 5$

$\square = 4$

$1 + \odot = 3$

$\odot = 2$

$\triangle + 2 = 5$

$\triangle = 3$

$\square + 1 = 7$

$\square = 6$

$\heartsuit + 3 = 5$

$\heartsuit = 2$

$6 + \square = 12$

$\square = 6$

$\ast + 6 = 15$

$\ast = 9$

$\times + 8 = 11$

$\times = 3$

Missing Numbers in Equations (F)

What value does each shape represent?

$$\diamond + 6 = 13$$

$$4 + \odot = 12$$

$$\otimes + 7 = 11$$

$$7 + \diamond = 10$$

$$\square + 9 = 15$$

$$\Delta + 6 = 11$$

$$\square + 1 = 8$$

$$6 + \square = 15$$

$$2 + \blacksquare = 5$$

$$5 + \otimes = 10$$

$$\boxplus + 5 = 11$$

$$1 + \odot = 7$$

$$1 + \odot = 7$$

$$\nabla + 4 = 10$$

$$5 + \frown = 12$$

$$9 + \square = 11$$

$$\Delta + 8 = 15$$

$$\square + 3 = 9$$

$$\square + 3 = 12$$

$$\diamond + 3 = 9$$

$$1 + \diamond = 5$$

$$\blacksquare + 6 = 15$$

$$\diamond + 7 = 14$$

$$\boxplus + 9 = 11$$

$$3 + \spadesuit = 6$$

$$\frown + 6 = 15$$

$$9 + \heartsuit = 11$$

$$3 + \frown = 4$$

$$\diamond + 5 = 7$$

$$\Delta + 9 = 11$$

$$6 + \nabla = 14$$

$$\boxplus + 9 = 18$$

$$8 + \boxplus = 11$$

$$5 + \square = 6$$

$$7 + \blacklozenge = 10$$

$$3 + \boxplus = 12$$

$$\diamond + 4 = 8$$

$$8 + \diamond = 13$$

$$2 + \heartsuit = 11$$

$$\diamond + 3 = 12$$

Missing Numbers in Equations (F)

What value does each shape represent?

$$\diamond + 6 = 13$$

$$\diamond = 7$$

$$4 + \odot = 12$$

$$\odot = 8$$

$$\star + 7 = 11$$

$$\star = 4$$

$$7 + \diamond = 10$$

$$\diamond = 3$$

$$\square + 9 = 15$$

$$\square = 6$$

$$\Delta + 6 = 11$$

$$\Delta = 5$$

$$\square + 1 = 8$$

$$\square = 7$$

$$6 + \square = 15$$

$$\square = 9$$

$$2 + \blacksquare = 5$$

$$\blacksquare = 3$$

$$5 + \star = 10$$

$$\star = 5$$

$$\boxplus + 5 = 11$$

$$\boxplus = 6$$

$$1 + \odot = 7$$

$$\odot = 6$$

$$1 + \odot = 7$$

$$\odot = 6$$

$$\nabla + 4 = 10$$

$$\nabla = 6$$

$$5 + \triangle = 12$$

$$\triangle = 7$$

$$9 + \square = 11$$

$$\square = 2$$

$$\Delta + 8 = 15$$

$$\Delta = 7$$

$$\square + 3 = 9$$

$$\square = 6$$

$$\square + 3 = 12$$

$$\square = 9$$

$$\square + 3 = 9$$

$$\square = 6$$

$$1 + \diamond = 5$$

$$\diamond = 4$$

$$\blacksquare + 6 = 15$$

$$\blacksquare = 9$$

$$\square + 7 = 14$$

$$\square = 7$$

$$\boxplus + 9 = 11$$

$$\boxplus = 2$$

$$3 + \spadesuit = 6$$

$$\spadesuit = 3$$

$$\triangle + 6 = 15$$

$$\triangle = 9$$

$$9 + \heartsuit = 11$$

$$\heartsuit = 2$$

$$3 + \triangle = 4$$

$$\triangle = 1$$

$$\diamond + 5 = 7$$

$$\diamond = 2$$

$$\Delta + 9 = 11$$

$$\Delta = 2$$

$$6 + \nabla = 14$$

$$\nabla = 8$$

$$\boxplus + 9 = 18$$

$$\boxplus = 9$$

$$8 + \boxplus = 11$$

$$\boxplus = 3$$

$$5 + \square = 6$$

$$\square = 1$$

$$7 + \blacklozenge = 10$$

$$\blacklozenge = 3$$

$$3 + \boxplus = 12$$

$$\boxplus = 9$$

$$\diamond + 4 = 8$$

$$\diamond = 4$$

$$8 + \diamond = 13$$

$$\diamond = 5$$

$$2 + \heartsuit = 11$$

$$\heartsuit = 9$$

$$\diamond + 3 = 12$$

$$\diamond = 9$$

Missing Numbers in Equations (G)

What value does each shape represent?

$7 + \nabla = 12$

$\diamond + 4 = 12$

$\square + 2 = 4$

$\triangle + 6 = 9$

$\square + 3 = 11$

$1 + \heartsuit = 9$

$\boxplus + 7 = 15$

$5 + \boxplus = 8$

$\square + 1 = 7$

$\blacksquare + 2 = 10$

$3 + \square = 11$

$\square + 1 = 2$

$\diamond + 5 = 8$

$\nabla + 5 = 7$

$\spadesuit + 1 = 7$

$\Delta + 8 = 11$

$\boxtimes + 6 = 10$

$8 + \blacksquare = 9$

$\heartsuit + 7 = 9$

$\square + 4 = 6$

$\odot + 5 = 7$

$\ast + 6 = 11$

$\ast + 9 = 12$

$\heartsuit + 6 = 7$

$2 + \diamond = 3$

$\odot + 7 = 16$

$8 + \heartsuit = 12$

$7 + \heartsuit = 16$

$\ast + 7 = 16$

$\boxtimes + 5 = 6$

$7 + \square = 15$

$4 + \blacksquare = 6$

$\odot + 5 = 11$

$\blacklozenge + 6 = 13$

$1 + \heartsuit = 4$

$5 + \Delta = 8$

$6 + \nabla = 11$

$\odot + 2 = 8$

$9 + \square = 13$

$3 + \Delta = 11$

Missing Numbers in Equations (G)

What value does each shape represent?

$7 + \nabla = 12$

$\nabla = 5$

$\diamond + 4 = 12$

$\diamond = 8$

$\square + 2 = 4$

$\square = 2$

$\triangle + 6 = 9$

$\triangle = 3$

$\square + 3 = 11$

$\square = 8$

$1 + \heartsuit = 9$

$\heartsuit = 8$

$\boxplus + 7 = 15$

$\boxplus = 8$

$5 + \boxplus = 8$

$\boxplus = 3$

$\square + 1 = 7$

$\square = 6$

$\blacksquare + 2 = 10$

$\blacksquare = 8$

$3 + \square = 11$

$\square = 8$

$\square + 1 = 2$

$\square = 1$

$\diamond + 5 = 8$

$\diamond = 3$

$\nabla + 5 = 7$

$\nabla = 2$

$\spadesuit + 1 = 7$

$\spadesuit = 6$

$\Delta + 8 = 11$

$\Delta = 3$

$\boxtimes + 6 = 10$

$\boxtimes = 4$

$8 + \blacksquare = 9$

$\blacksquare = 1$

$\heartsuit + 7 = 9$

$\heartsuit = 2$

$\square + 4 = 6$

$\square = 2$

$\odot + 5 = 7$

$\odot = 2$

$\ast + 6 = 11$

$\ast = 5$

$\ast + 9 = 12$

$\ast = 3$

$\heartsuit + 6 = 7$

$\heartsuit = 1$

$2 + \diamond = 3$

$\diamond = 1$

$\star + 7 = 16$

$\star = 9$

$8 + \heartsuit = 12$

$\heartsuit = 4$

$7 + \heartsuit = 16$

$\heartsuit = 9$

$\ast + 7 = 16$

$\ast = 9$

$\boxtimes + 5 = 6$

$\boxtimes = 1$

$7 + \square = 15$

$\square = 8$

$4 + \blacksquare = 6$

$\blacksquare = 2$

$\odot + 5 = 11$

$\odot = 6$

$\blacklozenge + 6 = 13$

$\blacklozenge = 7$

$1 + \heartsuit = 4$

$\heartsuit = 3$

$5 + \Delta = 8$

$\Delta = 3$

$6 + \nabla = 11$

$\nabla = 5$

$\star + 2 = 8$

$\star = 6$

$9 + \square = 13$

$\square = 4$

$3 + \Delta = 11$

$\Delta = 8$

Missing Numbers in Equations (H)

What value does each shape represent?

$$\square + 6 = 9$$

$$9 + \times = 18$$

$$\odot + 8 = 10$$

$$1 + \spadesuit = 5$$

$$\blacksquare + 3 = 5$$

$$2 + \circ = 9$$

$$\diamond + 1 = 2$$

$$\times + 2 = 8$$

$$\triangle + 7 = 10$$

$$\square + 5 = 13$$

$$8 + \square = 10$$

$$\nabla + 1 = 4$$

$$\square + 7 = 9$$

$$3 + \square = 5$$

$$\circ + 6 = 15$$

$$9 + \heartsuit = 15$$

$$7 + \circ = 12$$

$$\triangle + 5 = 6$$

$$\diamond + 9 = 12$$

$$4 + \odot = 7$$

$$1 + \heartsuit = 4$$

$$1 + \diamond = 6$$

$$\nabla + 6 = 9$$

$$\circ + 7 = 14$$

$$\boxplus + 3 = 8$$

$$\circ + 4 = 11$$

$$8 + \odot = 16$$

$$1 + \diamond = 7$$

$$1 + \spadesuit = 5$$

$$\odot + 1 = 8$$

$$\blacklozenge + 5 = 8$$

$$7 + \square = 16$$

$$3 + \odot = 4$$

$$\nabla + 6 = 12$$

$$1 + \heartsuit = 9$$

$$\heartsuit + 7 = 12$$

$$\circ + 9 = 12$$

$$\odot + 6 = 8$$

$$\square + 3 = 4$$

$$3 + \diamond = 6$$

Missing Numbers in Equations (H)

What value does each shape represent?

$$\square + 6 = 9$$

$$\square = 3$$

$$9 + \times = 18$$

$$\times = 9$$

$$\odot + 8 = 10$$

$$\odot = 2$$

$$1 + \spadesuit = 5$$

$$\spadesuit = 4$$

$$\blacksquare + 3 = 5$$

$$\blacksquare = 2$$

$$2 + \circ = 9$$

$$\circ = 7$$

$$\diamond + 1 = 2$$

$$\diamond = 1$$

$$\times + 2 = 8$$

$$\times = 6$$

$$\square + 7 = 10$$

$$\square = 3$$

$$\square + 5 = 13$$

$$\square = 8$$

$$8 + \square = 10$$

$$\square = 2$$

$$\nabla + 1 = 4$$

$$\nabla = 3$$

$$\square + 7 = 9$$

$$\square = 2$$

$$3 + \square = 5$$

$$\square = 2$$

$$\circ + 6 = 15$$

$$\circ = 9$$

$$9 + \heartsuit = 15$$

$$\heartsuit = 6$$

$$7 + \circ = 12$$

$$\circ = 5$$

$$\Delta + 5 = 6$$

$$\Delta = 1$$

$$\diamond + 9 = 12$$

$$\diamond = 3$$

$$4 + \odot = 7$$

$$\odot = 3$$

$$1 + \heartsuit = 4$$

$$\heartsuit = 3$$

$$1 + \diamond = 6$$

$$\diamond = 5$$

$$\nabla + 6 = 9$$

$$\nabla = 3$$

$$\circ + 7 = 14$$

$$\circ = 7$$

$$\boxplus + 3 = 8$$

$$\boxplus = 5$$

$$\circ + 4 = 11$$

$$\circ = 7$$

$$8 + \odot = 16$$

$$\odot = 8$$

$$1 + \diamond = 7$$

$$\diamond = 6$$

$$1 + \spadesuit = 5$$

$$\spadesuit = 4$$

$$\odot + 1 = 8$$

$$\odot = 7$$

$$\blacklozenge + 5 = 8$$

$$\blacklozenge = 3$$

$$7 + \square = 16$$

$$\square = 9$$

$$3 + \odot = 4$$

$$\odot = 1$$

$$\nabla + 6 = 12$$

$$\nabla = 6$$

$$1 + \heartsuit = 9$$

$$\heartsuit = 8$$

$$\heartsuit + 7 = 12$$

$$\heartsuit = 5$$

$$\circ + 9 = 12$$

$$\circ = 3$$

$$\odot + 6 = 8$$

$$\odot = 2$$

$$\square + 3 = 4$$

$$\square = 1$$

$$3 + \diamond = 6$$

$$\diamond = 3$$

Missing Numbers in Equations (I)

What value does each shape represent?

$4 + \square = 12$

$4 + \square = 5$

$\diamond + 3 = 11$

$\times + 8 = 10$

$5 + \Delta = 8$

$* + 9 = 18$

$\boxplus + 5 = 14$

$1 + \heartsuit = 9$

$\square + 9 = 10$

$3 + \odot = 11$

$8 + \Delta = 17$

$7 + \square = 8$

$3 + \square = 6$

$\cup + 8 = 15$

$6 + \heartsuit = 8$

$3 + \square = 9$

$\odot + 4 = 6$

$\blacklozenge + 7 = 10$

$\heartsuit + 7 = 11$

$5 + \square = 9$

$\blacksquare + 5 = 14$

$\boxplus + 5 = 10$

$\times + 6 = 8$

$\odot + 2 = 9$

$5 + \square = 10$

$3 + \star = 6$

$\cup + 5 = 12$

$\diamond + 1 = 7$

$\heartsuit + 7 = 12$

$\heartsuit + 2 = 11$

$6 + \Delta = 9$

$6 + \spadesuit = 10$

$6 + \spadesuit = 11$

$\star + 4 = 6$

$8 + \diamond = 9$

$4 + \square = 5$

$\nabla + 7 = 9$

$\times + 9 = 12$

$\diamond + 2 = 10$

$\square + 3 = 10$

Missing Numbers in Equations (I)

What value does each shape represent?

$4 + \square = 12$

$\square = 8$

$4 + \square = 5$

$\square = 1$

$\diamond + 3 = 11$

$\diamond = 8$

$\times + 8 = 10$

$\times = 2$

$5 + \Delta = 8$

$\Delta = 3$

$\ast + 9 = 18$

$\ast = 9$

$\boxplus + 5 = 14$

$\boxplus = 9$

$1 + \heartsuit = 9$

$\heartsuit = 8$

$\square + 9 = 10$

$\square = 1$

$3 + \odot = 11$

$\odot = 8$

$8 + \Delta = 17$

$\Delta = 9$

$7 + \square = 8$

$\square = 1$

$3 + \square = 6$

$\square = 3$

$\triangle + 8 = 15$

$\triangle = 7$

$6 + \heartsuit = 8$

$\heartsuit = 2$

$3 + \square = 9$

$\square = 6$

$\odot + 4 = 6$

$\odot = 2$

$\blacklozenge + 7 = 10$

$\blacklozenge = 3$

$\heartsuit + 7 = 11$

$\heartsuit = 4$

$5 + \square = 9$

$\square = 4$

$\blacksquare + 5 = 14$

$\blacksquare = 9$

$\boxplus + 5 = 10$

$\boxplus = 5$

$\times + 6 = 8$

$\times = 2$

$\odot + 2 = 9$

$\odot = 7$

$5 + \square = 10$

$\square = 5$

$3 + \star = 6$

$\star = 3$

$\triangle + 5 = 12$

$\triangle = 7$

$\diamond + 1 = 7$

$\diamond = 6$

$\heartsuit + 7 = 12$

$\heartsuit = 5$

$\heartsuit + 2 = 11$

$\heartsuit = 9$

$6 + \Delta = 9$

$\Delta = 3$

$6 + \spadesuit = 10$

$\spadesuit = 4$

$6 + \spadesuit = 11$

$\spadesuit = 5$

$\star + 4 = 6$

$\star = 2$

$8 + \diamond = 9$

$\diamond = 1$

$4 + \square = 5$

$\square = 1$

$\nabla + 7 = 9$

$\nabla = 2$

$\times + 9 = 12$

$\times = 3$

$\diamond + 2 = 10$

$\diamond = 8$

$\square + 3 = 10$

$\square = 7$

Missing Numbers in Equations (J)

What value does each shape represent?

$\blacklozenge + 6 = 14$

$2 + \times = 11$

$2 + \odot = 3$

$\square + 8 = 12$

$\star + 2 = 6$

$6 + \diamond = 7$

$3 + \times = 6$

$\boxplus + 4 = 13$

$2 + \odot = 3$

$7 + \blacklozenge = 8$

$\times + 9 = 10$

$3 + \times = 10$

$7 + \square = 8$

$6 + \heartsuit = 13$

$\heartsuit + 1 = 2$

$\boxplus + 7 = 10$

$\heartsuit + 4 = 10$

$\square + 5 = 10$

$\square + 6 = 10$

$7 + \nabla = 15$

$5 + \blacklozenge = 6$

$9 + \nabla = 17$

$\Delta + 6 = 12$

$4 + * = 13$

$\square + 8 = 14$

$5 + \odot = 13$

$3 + \square = 11$

$\diamond + 5 = 6$

$\star + 2 = 9$

$2 + \blacklozenge = 9$

$\smile + 7 = 12$

$\blacklozenge + 1 = 5$

$\blacksquare + 8 = 16$

$6 + \square = 7$

$\Delta + 8 = 14$

$\diamond + 8 = 11$

$2 + \odot = 5$

$9 + \square = 12$

$5 + \square = 9$

$\square + 9 = 16$

Missing Numbers in Equations (J)

What value does each shape represent?

$$\blacklozenge + 6 = 14$$

$$\blacklozenge = 8$$

$$2 + \times = 11$$

$$\times = 9$$

$$2 + \odot = 3$$

$$\odot = 1$$

$$\square + 8 = 12$$

$$\square = 4$$

$$\star + 2 = 6$$

$$\star = 4$$

$$6 + \diamond = 7$$

$$\diamond = 1$$

$$3 + \times = 6$$

$$\times = 3$$

$$\boxplus + 4 = 13$$

$$\boxplus = 9$$

$$2 + \odot = 3$$

$$\odot = 1$$

$$7 + \blacklozenge = 8$$

$$\blacklozenge = 1$$

$$\times + 9 = 10$$

$$\times = 1$$

$$3 + \times = 10$$

$$\times = 7$$

$$7 + \diamond = 8$$

$$\diamond = 1$$

$$6 + \heartsuit = 13$$

$$\heartsuit = 7$$

$$\heartsuit + 1 = 2$$

$$\heartsuit = 1$$

$$\boxplus + 7 = 10$$

$$\boxplus = 3$$

$$\heartsuit + 4 = 10$$

$$\heartsuit = 6$$

$$\square + 5 = 10$$

$$\square = 5$$

$$\square + 6 = 10$$

$$\square = 4$$

$$7 + \nabla = 15$$

$$\nabla = 8$$

$$5 + \blacklozenge = 6$$

$$\blacklozenge = 1$$

$$9 + \nabla = 17$$

$$\nabla = 8$$

$$\Delta + 6 = 12$$

$$\Delta = 6$$

$$4 + \ast = 13$$

$$\ast = 9$$

$$\diamond + 8 = 14$$

$$\diamond = 6$$

$$5 + \odot = 13$$

$$\odot = 8$$

$$3 + \square = 11$$

$$\square = 8$$

$$\diamond + 5 = 6$$

$$\diamond = 1$$

$$\star + 2 = 9$$

$$\star = 7$$

$$2 + \blacklozenge = 9$$

$$\blacklozenge = 7$$

$$\smile + 7 = 12$$

$$\smile = 5$$

$$\blacklozenge + 1 = 5$$

$$\blacklozenge = 4$$

$$\blacksquare + 8 = 16$$

$$\blacksquare = 8$$

$$6 + \square = 7$$

$$\square = 1$$

$$\Delta + 8 = 14$$

$$\Delta = 6$$

$$\diamond + 8 = 11$$

$$\diamond = 3$$

$$2 + \odot = 5$$

$$\odot = 3$$

$$9 + \square = 12$$

$$\square = 3$$

$$5 + \square = 9$$

$$\square = 4$$

$$\square + 9 = 16$$

$$\square = 7$$