Missing Numbers in Equations (A)

What value does each shape represent?

$171 \div \spadesuit = 9$	$31 - \hexagon = 13$	$\boxplus \div 15 = 1$	$19 - \divideontimes = 6$
$9 + \divideontimes = 12$	$\diamondsuit \div 14 = 2$	$12 \times \diamondsuit = 240$	$\square \div 16 = 14$
$10 + \square = 22$	$2 + \square = 15$	$\spadesuit \div 14 = 2$	$76 \div \blacklozenge = 4$
$\lozenge + 13 = 21$	$5 + \circledcirc = 21$	$7 - \square = 4$	$\spadesuit \times 5 = 65$
$260 \div \circledcirc = 13$	$\hexagon + 1 = 4$	$14 + \boxtimes = 30$	$6 \times \odot = 108$
$6 \times \circledstar = 102$	$\square + 15 = 23$	$5 \times \boxplus = 35$	$\frown \times 16 = 16$
$108 \div \blacklozenge = 6$	$\pentagon \times 8 = 32$	$2 + \Delta = 5$	$31 - \square = 19$
$18 + \heartsuit = 28$	$126 \div \boxtimes = 9$	$7 \times \spadesuit = 98$	$21 - \diamondsuit = 7$
$\square \div 13 = 1$	$\nabla \times 3 = 42$	$\divideontimes - 10 = 13$	$27 - \boxtimes = 20$
$65 \div \boxtimes = 5$	$3 \times \odot = 27$	$24 - \boxplus = 14$	$12 \times \square = 12$

Missing Numbers in Equations (A) Answers

What value does each shape represent?

$171 \div \spadesuit = 9$
$\spadesuit = 19$

$31 - \hexagon = 13$
$\hexagon = 18$

$\boxplus \div 15 = 1$
$\boxplus = 15$

$19 - \divideontimes = 6$
$\divideontimes = 13$

$9 + \divideontimes = 12$
$\divideontimes = 3$

$\diamondsuit \div 14 = 2$
$\diamondsuit = 28$

$12 \times \diamondsuit = 240$
$\diamondsuit = 20$

$\square \div 16 = 14$
$\square = 224$

$10 + \square = 22$
$\square = 12$

$2 + \square = 15$
$\square = 13$

$\spadesuit \div 14 = 2$
$\spadesuit = 28$

$76 \div \blacklozenge = 4$
$\blacklozenge = 19$

$\lozenge + 13 = 21$
$\lozenge = 8$

$5 + \circledcirc = 21$
$\circledcirc = 16$

$7 - \square = 4$
$\square = 3$

$\spadesuit \times 5 = 65$
$\spadesuit = 13$

$260 \div \circledcirc = 13$
$\circledcirc = 20$

$\hexagon + 1 = 4$
$\hexagon = 3$

$14 + \boxtimes = 30$
$\boxtimes = 16$

$6 \times \odot = 108$
$\odot = 18$

$6 \times \circledstar = 102$
$\circledstar = 17$

$\square + 15 = 23$
$\square = 8$

$5 \times \boxplus = 35$
$\boxplus = 7$

$\frown \times 16 = 16$
$\frown = 1$

$108 \div \blacklozenge = 6$
$\blacklozenge = 18$

$\pentagon \times 8 = 32$
$\pentagon = 4$

$2 + \Delta = 5$
$\Delta = 3$

$31 - \square = 19$
$\square = 12$

$18 + \heartsuit = 28$
$\heartsuit = 10$

$126 \div \boxtimes = 9$
$\boxtimes = 14$

$7 \times \spadesuit = 98$
$\spadesuit = 14$

$21 - \diamondsuit = 7$
$\diamondsuit = 14$

$\square \div 13 = 1$
$\square = 13$

$\nabla \times 3 = 42$
$\nabla = 14$

$\divideontimes - 10 = 13$
$\divideontimes = 23$

$27 - \boxtimes = 20$
$\boxtimes = 7$

$65 \div \boxtimes = 5$
$\boxtimes = 13$

$3 \times \odot = 27$
$\odot = 9$

$24 - \boxplus = 14$
$\boxplus = 10$

$12 \times \square = 12$
$\square = 1$

Missing Numbers in Equations (B)

What value does each shape represent?

⧖ − 14 = 19	Δ × 13 = 13	15 − ⊛ = 2	※ × 20 = 340
※ + 1 = 4	※ − 7 = 15	♦ ÷ 18 = 19	⊞ × 8 = 152
⧉ × 2 = 28	19 + ⧖ = 35	⧖ ÷ 18 = 2	⊛ + 10 = 27
◉ − 1 = 6	⌓ × 9 = 27	26 − ⧖ = 8	20 − ♡ = 5
12 + ※ = 29	※ × 15 = 120	◉ + 7 = 11	▯ + 6 = 8
14 − ⊛ = 11	200 ÷ ♠ = 10	⊛ + 4 = 11	36 − ▭ = 16
20 − ▭ = 1	10 × ◊ = 100	⊞ × 9 = 45	◉ − 19 = 13
♡ − 9 = 11	※ ÷ 10 = 11	6 + ⌓ = 18	30 ÷ ⊙ = 6
▯ + 1 = 20	25 − ♦ = 17	⊙ ÷ 12 = 5	Δ ÷ 1 = 11
⬡ − 16 = 12	⌓ + 16 = 21	♡ − 15 = 10	✧ ÷ 17 = 16

Missing Numbers in Equations (B)

What value does each shape represent?

$\boxtimes - 14 = 19$
$\boxtimes = 33$

$\Delta \times 13 = 13$
$\Delta = 1$

$15 - \circledast = 2$
$\circledast = 13$

$\divideontimes \times 20 = 340$
$\divideontimes = 17$

$\divideontimes + 1 = 4$
$\divideontimes = 3$

$\divideontimes - 7 = 15$
$\divideontimes = 22$

$\blacklozenge \div 18 = 19$
$\blacklozenge = 342$

$\boxplus \times 8 = 152$
$\boxplus = 19$

$\boxtimes \times 2 = 28$
$\boxtimes = 14$

$19 + \boxtimes = 35$
$\boxtimes = 16$

$\boxtimes \div 18 = 2$
$\boxtimes = 36$

$\circledast + 10 = 27$
$\circledast = 17$

$\circledcirc - 1 = 6$
$\circledcirc = 7$

$\frown \times 9 = 27$
$\frown = 3$

$26 - \boxtimes = 8$
$\boxtimes = 18$

$20 - \heartsuit = 5$
$\heartsuit = 15$

$12 + \divideontimes = 29$
$\divideontimes = 17$

$\divideontimes \times 15 = 120$
$\divideontimes = 8$

$\circledcirc + 7 = 11$
$\circledcirc = 4$

$\square + 6 = 8$
$\square = 2$

$14 - \circledast = 11$
$\circledast = 3$

$200 \div \spadesuit = 10$
$\spadesuit = 20$

$\circledast + 4 = 11$
$\circledast = 7$

$36 - \square = 16$
$\square = 20$

$20 - \square = 1$
$\square = 19$

$10 \times \lozenge = 100$
$\lozenge = 10$

$\boxplus \times 9 = 45$
$\boxplus = 5$

$\circledcirc - 19 = 13$
$\circledcirc = 32$

$\heartsuit - 9 = 11$
$\heartsuit = 20$

$\divideontimes \div 10 = 11$
$\divideontimes = 110$

$6 + \frown = 18$
$\frown = 12$

$30 \div \odot = 6$
$\odot = 5$

$\square + 1 = 20$
$\square = 19$

$25 - \blacklozenge = 17$
$\blacklozenge = 8$

$\odot \div 12 = 5$
$\odot = 60$

$\Delta \div 1 = 11$
$\Delta = 11$

$\hexagon - 16 = 12$
$\hexagon = 28$

$\frown + 16 = 21$
$\frown = 5$

$\heartsuit - 15 = 10$
$\heartsuit = 25$

$\diamond \div 17 = 16$
$\diamond = 272$

Missing Numbers in Equations (C)

What value does each shape represent?

$\circledast + 9 = 19$	$48 \div \cap = 4$	$10 + \diamond = 17$	$2 \times \circledcirc = 20$
$13 + \cap = 26$	$\square \times 14 = 252$	$\pentagon - 7 = 15$	$\boxtimes - 20 = 19$
$45 \div \boxtimes = 15$	$\odot \div 1 = 2$	$\cap \div 11 = 7$	$23 - \odot = 10$
$\cap + 6 = 24$	$2 \times \square = 18$	$28 - \odot = 11$	$\blacksquare \times 16 = 224$
$102 \div \boxplus = 17$	$\square \div 5 = 6$	$11 - \square = 10$	$\diamond + 17 = 19$
$77 \div \boxplus = 7$	$8 \times \pentagon = 120$	$72 \div \blacklozenge = 6$	$\square \times 3 = 51$
$\nabla \div 4 = 2$	$\square + 9 = 10$	$\diamond \div 11 = 17$	$\blacksquare + 13 = 14$
$6 + \pentagon = 26$	$24 - \lozenge = 10$	$\circledast - 17 = 19$	$\square - 20 = 5$
$\divideontimes \div 14 = 1$	$\odot - 8 = 4$	$19 \times \blacklozenge = 190$	$\Delta \times 14 = 140$
$1 \times \square = 2$	$27 - \odot = 17$	$\hexagon \div 3 = 17$	$6 + \blacklozenge = 13$

Missing Numbers in Equations (C)

What value does each shape represent?

⊛ + 9 = 19 ⊛ = 10	48 ÷ ⌓ = 4 ⌓ = 12	10 + ✧ = 17 ✧ = 7	2 × ◉ = 20 ◉ = 10
13 + ⌓ = 26 ⌓ = 13	□ × 14 = 252 □ = 18	⬠ − 7 = 15 ⬠ = 22	⧖ − 20 = 19 ⧖ = 39
45 ÷ ⧖ = 15 ⧖ = 3	⊙ ÷ 1 = 2 ⊙ = 2	⌓ ÷ 11 = 7 ⌓ = 77	23 − ⊙ = 10 ⊙ = 13
⌓ + 6 = 24 ⌓ = 18	2 × ▭ = 18 ▭ = 9	28 − ⊙ = 11 ⊙ = 17	■ × 16 = 224 ■ = 14
102 ÷ ⊞ = 17 ⊞ = 6	▯ ÷ 5 = 6 ▯ = 30	11 − ▭ = 10 ▭ = 1	✧ + 17 = 19 ✧ = 2
77 ÷ ⊞ = 7 ⊞ = 11	8 × ⬠ = 120 ⬠ = 15	72 ÷ ♦ = 6 ♦ = 12	▭ × 3 = 51 ▭ = 17
∇ ÷ 4 = 2 ∇ = 8	▯ + 9 = 10 ▯ = 1	✧ ÷ 11 = 17 ✧ = 187	■ + 13 = 14 ■ = 1
6 + ⬠ = 26 ⬠ = 20	24 − ◊ = 10 ◊ = 14	⊛ − 17 = 19 ⊛ = 36	□ − 20 = 5 □ = 25
※ ÷ 14 = 1 ※ = 14	⊙ − 8 = 4 ⊙ = 12	19 × ♦ = 190 ♦ = 10	Δ × 14 = 140 Δ = 10
1 × ▯ = 2 ▯ = 2	27 − ⊙ = 17 ⊙ = 10	⬡ ÷ 3 = 17 ⬡ = 51	6 + ♦ = 13 ♦ = 7

Missing Numbers in Equations (D)

What value does each shape represent?

♡ × 9 = 54	7 + ⬡ = 27	192 ÷ □ = 16	♠ ÷ 15 = 3
17 × ◊ = 34	⬠ − 1 = 9	♦ + 18 = 36	23 − ♠ = 19
◉ × 11 = 33	⍟ + 1 = 11	4 + ⧖ = 21	⧖ ÷ 9 = 11
14 + ∇ = 33	⬠ − 6 = 16	□ − 3 = 5	♠ − 13 = 13
112 ÷ ▯ = 14	10 × □ = 40	1 × ♡ = 19	8 ÷ ✧ = 1
▯ − 15 = 18	⊞ − 1 = 12	29 − ※ = 9	⧉ − 12 = 6
11 × ⬠ = 66	10 + ⧉ = 25	7 + ▯ = 8	21 − ♡ = 18
7 × ⍟ = 105	∇ − 5 = 1	⬠ ÷ 18 = 6	10 + ◉ = 21
234 ÷ ⊙ = 13	16 × ♦ = 288	⧖ + 14 = 18	98 ÷ ▭ = 7
84 ÷ ▯ = 12	14 × □ = 56	♠ + 10 = 11	⌓ × 4 = 68

Missing Numbers in Equations (D)

What value does each shape represent?

♡ × 9 = 54 ♡ = 6	7 + ⬡ = 27 ⬡ = 20	192 ÷ □ = 16 □ = 12	♠ ÷ 15 = 3 ♠ = 45
17 × ◊ = 34 ◊ = 2	⬠ − 1 = 9 ⬠ = 10	♦ + 18 = 36 ♦ = 18	23 − ♠ = 19 ♠ = 4
◉ × 11 = 33 ◉ = 3	✪ + 1 = 11 ✪ = 10	4 + ⧖ = 21 ⧖ = 17	⧖ ÷ 9 = 11 ⧖ = 99
14 + ∇ = 33 ∇ = 19	⬠ − 6 = 16 ⬠ = 22	□ − 3 = 5 □ = 8	♠ − 13 = 13 ♠ = 26
112 ÷ ▯ = 14 ▯ = 8	10 × □ = 40 □ = 4	1 × ♡ = 19 ♡ = 19	8 ÷ ✧ = 1 ✧ = 8
▯ − 15 = 18 ▯ = 33	⊞ − 1 = 12 ⊞ = 13	29 − ※ = 9 ※ = 20	⧉ − 12 = 6 ⧉ = 18
11 × ⬠ = 66 ⬠ = 6	10 + ⧉ = 25 ⧉ = 15	7 + ▯ = 8 ▯ = 1	21 − ♡ = 18 ♡ = 3
7 × ✪ = 105 ✪ = 15	∇ − 5 = 1 ∇ = 6	⬠ ÷ 18 = 6 ⬠ = 108	10 + ◉ = 21 ◉ = 11
234 ÷ ⊙ = 13 ⊙ = 18	16 × ♦ = 288 ♦ = 18	⧖ + 14 = 18 ⧖ = 4	98 ÷ ▭ = 7 ▭ = 14
84 ÷ ▯ = 12 ▯ = 7	14 × □ = 56 □ = 4	♠ + 10 = 11 ♠ = 1	⌓ × 4 = 68 ⌓ = 17

Missing Numbers in Equations (E)

What value does each shape represent?

$13 - ⧖ = 10$	$6 + ▭ = 15$	$※ + 13 = 29$	$▯ \div 5 = 10$
$14 \times ▭ = 210$	$28 - Δ = 13$	$⊛ + 10 = 21$	$285 \div ◉ = 15$
$■ + 10 = 16$	$29 - ⬡ = 13$	$⊛ + 10 = 22$	$8 + □ = 20$
$∇ \div 14 = 20$	$▯ - 1 = 11$	$4 + ♦ = 6$	$⊞ \div 17 = 12$
$2 \times Δ = 40$	$⧖ + 10 = 18$	$12 \times ♦ = 180$	$2 + ◊ = 9$
$23 - ✧ = 3$	$⬠ + 9 = 10$	$□ \div 13 = 19$	$□ \times 1 = 13$
$◊ + 5 = 18$	$6 + ⬡ = 18$	$□ \div 7 = 3$	$♡ \times 7 = 56$
$⊛ - 3 = 7$	$5 \times ♠ = 80$	$♠ \times 12 = 48$	$∇ + 20 = 26$
$⬠ - 19 = 2$	$11 - ♠ = 3$	$14 \div ⌓ = 1$	$⧖ \div 15 = 18$
$⌓ \times 3 = 45$	$∇ \div 7 = 7$	$342 \div ※ = 19$	$◉ \div 18 = 17$

Missing Numbers in Equations (E)

What value does each shape represent?

$13 - ⧖ = 10$
$⧖ = 3$

$6 + ▭ = 15$
$▭ = 9$

$※ + 13 = 29$
$※ = 16$

$▯ \div 5 = 10$
$▯ = 50$

$14 \times ▭ = 210$
$▭ = 15$

$28 - Δ = 13$
$Δ = 15$

$⊛ + 10 = 21$
$⊛ = 11$

$285 \div ◉ = 15$
$◉ = 19$

$■ + 10 = 16$
$■ = 6$

$29 - ⬡ = 13$
$⬡ = 16$

$⊛ + 10 = 22$
$⊛ = 12$

$8 + □ = 20$
$□ = 12$

$∇ \div 14 = 20$
$∇ = 280$

$▯ - 1 = 11$
$▯ = 12$

$4 + ♦ = 6$
$♦ = 2$

$⊞ \div 17 = 12$
$⊞ = 204$

$2 \times Δ = 40$
$Δ = 20$

$⧖ + 10 = 18$
$⧖ = 8$

$12 \times ♦ = 180$
$♦ = 15$

$2 + ◊ = 9$
$◊ = 7$

$23 - ✧ = 3$
$✧ = 20$

$⬠ + 9 = 10$
$⬠ = 1$

$□ \div 13 = 19$
$□ = 247$

$□ \times 1 = 13$
$□ = 13$

$◊ + 5 = 18$
$◊ = 13$

$6 + ⬡ = 18$
$⬡ = 12$

$□ \div 7 = 3$
$□ = 21$

$♡ \times 7 = 56$
$♡ = 8$

$⊛ - 3 = 7$
$⊛ = 10$

$5 \times ♠ = 80$
$♠ = 16$

$♠ \times 12 = 48$
$♠ = 4$

$∇ + 20 = 26$
$∇ = 6$

$⬠ - 19 = 2$
$⬠ = 21$

$11 - ♠ = 3$
$♠ = 8$

$14 \div ⌓ = 1$
$⌓ = 14$

$⧖ \div 15 = 18$
$⧖ = 270$

$⌓ \times 3 = 45$
$⌓ = 15$

$∇ \div 7 = 7$
$∇ = 49$

$342 \div ※ = 19$
$※ = 18$

$◉ \div 18 = 17$
$◉ = 306$

Missing Numbers in Equations (F)

What value does each shape represent?

♠ × 20 = 200	◊ × 4 = 20	14 + ◉ = 20	8 × ※ = 64
■ − 2 = 20	⬠ × 5 = 35	16 − ✧ = 2	▯ − 7 = 12
⧉ − 9 = 8	31 − ♠ = 19	▯ ÷ 12 = 19	∇ − 14 = 19
※ × 2 = 40	▯ − 4 = 8	◉ − 12 = 14	※ − 5 = 16
24 − ✧ = 20	8 + ♦ = 28	♠ − 10 = 12	♦ ÷ 16 = 15
9 × ◊ = 18	119 ÷ ⧉ = 7	144 ÷ ♡ = 8	⬠ ÷ 2 = 17
30 − ⊛ = 10	19 − ▭ = 14	8 × ∇ = 152	∇ ÷ 6 = 15
⊛ ÷ 9 = 15	◊ + 15 = 17	38 ÷ ⧉ = 2	33 − ⌓ = 15
14 × ♡ = 196	⧉ − 1 = 18	18 × ⬠ = 18	▭ × 12 = 144
14 ÷ ⬠ = 2	234 ÷ ⊛ = 13	126 ÷ ⊛ = 14	5 + Δ = 16

Missing Numbers in Equations (F)

What value does each shape represent?

♠ × 20 = 200 ♠ = 10	◊ × 4 = 20 ◊ = 5	14 + ◉ = 20 ◉ = 6	8 × ※ = 64 ※ = 8
■ − 2 = 20 ■ = 22	⌂ × 5 = 35 ⌂ = 7	16 − ✧ = 2 ✧ = 14	▯ − 7 = 12 ▯ = 19
⧉ − 9 = 8 ⧉ = 17	31 − ♠ = 19 ♠ = 12	▯ ÷ 12 = 19 ▯ = 228	∇ − 14 = 19 ∇ = 33
※ × 2 = 40 ※ = 20	▯ − 4 = 8 ▯ = 12	◉ − 12 = 14 ◉ = 26	※ − 5 = 16 ※ = 21
24 − ✧ = 20 ✧ = 4	8 + ♦ = 28 ♦ = 20	♠ − 10 = 12 ♠ = 22	♦ ÷ 16 = 15 ♦ = 240
9 × ◊ = 18 ◊ = 2	119 ÷ ⧉ = 7 ⧉ = 17	144 ÷ ♡ = 8 ♡ = 18	⌂ ÷ 2 = 17 ⌂ = 34
30 − ⊛ = 10 ⊛ = 20	19 − ▭ = 14 ▭ = 5	8 × ∇ = 152 ∇ = 19	∇ ÷ 6 = 15 ∇ = 90
⊛ ÷ 9 = 15 ⊛ = 135	◊ + 15 = 17 ◊ = 2	38 ÷ ⧉ = 2 ⧉ = 19	33 − ⌓ = 15 ⌓ = 18
14 × ♡ = 196 ♡ = 14	⧉ − 1 = 18 ⧉ = 19	18 × ⌂ = 18 ⌂ = 1	▭ × 12 = 144 ▭ = 12
14 ÷ ⌂ = 2 ⌂ = 7	234 ÷ ⊛ = 13 ⊛ = 18	126 ÷ ⊛ = 14 ⊛ = 9	5 + Δ = 16 Δ = 11

Missing Numbers in Equations (G)

What value does each shape represent?

◉ ÷ 10 = 17	■ × 8 = 8	♠ − 2 = 3	✧ + 20 = 23
⊞ × 4 = 56	□ − 6 = 14	95 ÷ ⊙ = 19	10 − ✧ = 1
⌓ ÷ 2 = 7	90 ÷ ⧉ = 6	⧉ ÷ 6 = 2	※ × 13 = 26
304 ÷ ※ = 19	⊞ + 13 = 25	♠ × 6 = 120	15 × ♦ = 45
⧉ + 7 = 21	♡ × 15 = 210	⧖ × 4 = 36	✧ ÷ 5 = 11
39 − ⌓ = 20	19 × ☖ = 76	⊛ + 16 = 23	⊛ + 12 = 15
7 × ※ = 84	20 − ♡ = 17	15 + ◊ = 17	⊙ − 2 = 14
⧉ − 4 = 5	14 + ⌓ = 27	⊛ + 18 = 24	⬡ + 8 = 18
3 − ⊞ = 1	2 + ✧ = 3	9 − ⬡ = 1	20 + ☖ = 22
✧ + 5 = 21	⧉ × 16 = 48	1 × ✧ = 1	◊ − 5 = 4

Missing Numbers in Equations (G)

What value does each shape represent?

◉ ÷ 10 = 17
◉ = 170

■ × 8 = 8
■ = 1

♠ − 2 = 3
♠ = 5

✧ + 20 = 23
✧ = 3

⊞ × 4 = 56
⊞ = 14

□ − 6 = 14
□ = 20

95 ÷ ⊙ = 19
⊙ = 5

10 − ✧ = 1
✧ = 9

⌓ ÷ 2 = 7
⌓ = 14

90 ÷ ⧉ = 6
⧉ = 15

⧉ ÷ 6 = 2
⧉ = 12

※ × 13 = 26
※ = 2

304 ÷ ※ = 19
※ = 16

⊞ + 13 = 25
⊞ = 12

♠ × 6 = 120
♠ = 20

15 × ♦ = 45
♦ = 3

⧉ + 7 = 21
⧉ = 14

♡ × 15 = 210
♡ = 14

⧖ × 4 = 36
⧖ = 9

✧ ÷ 5 = 11
✧ = 55

39 − ⌓ = 20
⌓ = 19

19 × ☖ = 76
☖ = 4

⊛ + 16 = 23
⊛ = 7

⊛ + 12 = 15
⊛ = 3

7 × ※ = 84
※ = 12

20 − ♡ = 17
♡ = 3

15 + ◊ = 17
◊ = 2

⊙ − 2 = 14
⊙ = 16

⧉ − 4 = 5
⧉ = 9

14 + ⌓ = 27
⌓ = 13

⊛ + 18 = 24
⊛ = 6

⬡ + 8 = 18
⬡ = 10

3 − ⊞ = 1
⊞ = 2

2 + ✧ = 3
✧ = 1

9 − ⬡ = 1
⬡ = 8

20 + ☖ = 22
☖ = 2

✧ + 5 = 21
✧ = 16

⧉ × 16 = 48
⧉ = 3

1 × ✧ = 1
✧ = 1

◊ − 5 = 4
◊ = 9

Missing Numbers in Equations (H)

What value does each shape represent?

$\square \times 7 = 112$ $\quad \Delta \times 13 = 65$ $\quad 19 - \blacklozenge = 10$ $\quad 19 + \heartsuit = 23$

$45 \div \pentagon = 15$ $\quad 5 + \heartsuit = 18$ $\quad \square - 12 = 4$ $\quad 11 - \spadesuit = 10$

$8 + \square = 14$ $\quad \pentagon + 11 = 24$ $\quad \heartsuit \times 9 = 27$ $\quad \hourglass \div 14 = 18$

$\square - 12 = 18$ $\quad 16 \times \hexagon = 32$ $\quad 36 \div \hexagon = 12$ $\quad 6 + \circledcirc = 21$

$238 \div \diamondsuit = 14$ $\quad 12 + \hourglass = 17$ $\quad \blacklozenge \times 9 = 27$ $\quad 2 + \cap = 16$

$16 + \blacksquare = 36$ $\quad \Delta \times 11 = 121$ $\quad 20 \div \square = 1$ $\quad \square \times 5 = 25$

$1 \times \Delta = 2$ $\quad 252 \div \boxplus = 14$ $\quad \diamondsuit - 12 = 8$ $\quad \diamondsuit \div 3 = 1$

$8 + \spadesuit = 9$ $\quad 1 \times \circledcirc = 9$ $\quad \spadesuit - 10 = 18$ $\quad \boxplus \div 3 = 9$

$\circledcirc + 9 = 22$ $\quad \odot - 18 = 19$ $\quad 14 \times \circledast = 280$ $\quad 31 - \varkappa = 15$

$\nabla \times 17 = 289$ $\quad \lozenge \times 18 = 108$ $\quad 25 - \hexagon = 13$ $\quad \odot + 7 = 18$

Missing Numbers in Equations (H)

What value does each shape represent?

$\square \times 7 = 112$
$\square = 16$

$\Delta \times 13 = 65$
$\Delta = 5$

$19 - \blacklozenge = 10$
$\blacklozenge = 9$

$19 + \heartsuit = 23$
$\heartsuit = 4$

$45 \div \pentagon = 15$
$\pentagon = 3$

$5 + \heartsuit = 18$
$\heartsuit = 13$

$\square - 12 = 4$
$\square = 16$

$11 - \spadesuit = 10$
$\spadesuit = 1$

$8 + \square = 14$
$\square = 6$

$\pentagon + 11 = 24$
$\pentagon = 13$

$\heartsuit \times 9 = 27$
$\heartsuit = 3$

$\hourglass \div 14 = 18$
$\hourglass = 252$

$\square - 12 = 18$
$\square = 30$

$16 \times \hexagon = 32$
$\hexagon = 2$

$36 \div \hexagon = 12$
$\hexagon = 3$

$6 + \circledcirc = 21$
$\circledcirc = 15$

$238 \div \diamondsuit = 14$
$\diamondsuit = 17$

$12 + \hourglass = 17$
$\hourglass = 5$

$\blacklozenge \times 9 = 27$
$\blacklozenge = 3$

$2 + \cap = 16$
$\cap = 14$

$16 + \blacksquare = 36$
$\blacksquare = 20$

$\Delta \times 11 = 121$
$\Delta = 11$

$20 \div \square = 1$
$\square = 20$

$\square \times 5 = 25$
$\square = 5$

$1 \times \Delta = 2$
$\Delta = 2$

$252 \div \boxplus = 14$
$\boxplus = 18$

$\diamondsuit - 12 = 8$
$\diamondsuit = 20$

$\diamondsuit \div 3 = 1$
$\diamondsuit = 3$

$8 + \spadesuit = 9$
$\spadesuit = 1$

$1 \times \circledcirc = 9$
$\circledcirc = 9$

$\spadesuit - 10 = 18$
$\spadesuit = 28$

$\boxplus \div 3 = 9$
$\boxplus = 27$

$\circledcirc + 9 = 22$
$\circledcirc = 13$

$\odot - 18 = 19$
$\odot = 37$

$14 \times \circledast = 280$
$\circledast = 20$

$31 - \divideontimes = 15$
$\divideontimes = 16$

$\nabla \times 17 = 289$
$\nabla = 17$

$\lozenge \times 18 = 108$
$\lozenge = 6$

$25 - \hexagon = 13$
$\hexagon = 12$

$\odot + 7 = 18$
$\odot = 11$

Missing Numbers in Equations (I)

What value does each shape represent?

✧ × 13 = 52	13 + Δ = 31	▯ + 6 = 19	304 ÷ ♦ = 16
♦ − 6 = 4	♠ + 4 = 20	▭ ÷ 8 = 6	⊛ + 16 = 24
※ + 11 = 22	⧉ × 4 = 72	187 ÷ ▯ = 17	1 + ※ = 13
22 − ⌓ = 7	18 + ♡ = 19	12 − ⌓ = 11	35 − ⊛ = 15
∇ + 20 = 39	15 × ⌓ = 60	⧖ × 13 = 182	◉ − 4 = 12
⊞ × 3 = 9	♡ − 18 = 18	⌓ ÷ 5 = 2	◉ − 10 = 14
18 × ✧ = 216	◻ + 15 = 16	✧ + 17 = 29	⌓ + 8 = 25
14 × ◉ = 70	6 + ♠ = 11	54 ÷ ◉ = 18	♡ × 16 = 256
5 ÷ ◉ = 1	16 + ♡ = 19	208 ÷ Δ = 16	15 − ⊛ = 11
6 × ▯ = 36	◉ − 6 = 17	144 ÷ ♠ = 18	♡ − 11 = 3

Missing Numbers in Equations (I)

What value does each shape represent?

$\diamond \times 13 = 52$
$\diamond = 4$

$13 + \Delta = 31$
$\Delta = 18$

$\square + 6 = 19$
$\square = 13$

$304 \div \blacklozenge = 16$
$\blacklozenge = 19$

$\blacklozenge - 6 = 4$
$\blacklozenge = 10$

$\spadesuit + 4 = 20$
$\spadesuit = 16$

$\square \div 8 = 6$
$\square = 48$

$\circledast + 16 = 24$
$\circledast = 8$

$\divideontimes + 11 = 22$
$\divideontimes = 11$

$\boxtimes \times 4 = 72$
$\boxtimes = 18$

$187 \div \square = 17$
$\square = 11$

$1 + \divideontimes = 13$
$\divideontimes = 12$

$22 - \frown = 7$
$\frown = 15$

$18 + \heartsuit = 19$
$\heartsuit = 1$

$12 - \frown = 11$
$\frown = 1$

$35 - \circledast = 15$
$\circledast = 20$

$\nabla + 20 = 39$
$\nabla = 19$

$15 \times \frown = 60$
$\frown = 4$

$\boxtimes \times 13 = 182$
$\boxtimes = 14$

$\circledcirc - 4 = 12$
$\circledcirc = 16$

$\boxplus \times 3 = 9$
$\boxplus = 3$

$\heartsuit - 18 = 18$
$\heartsuit = 36$

$\frown \div 5 = 2$
$\frown = 10$

$\circledcirc - 10 = 14$
$\circledcirc = 24$

$18 \times \diamond = 216$
$\diamond = 12$

$\square + 15 = 16$
$\square = 1$

$\diamond + 17 = 29$
$\diamond = 12$

$\frown + 8 = 25$
$\frown = 17$

$14 \times \circledcirc = 70$
$\circledcirc = 5$

$6 + \spadesuit = 11$
$\spadesuit = 5$

$54 \div \circledcirc = 18$
$\circledcirc = 3$

$\heartsuit \times 16 = 256$
$\heartsuit = 16$

$5 \div \circledcirc = 1$
$\circledcirc = 5$

$16 + \heartsuit = 19$
$\heartsuit = 3$

$208 \div \Delta = 16$
$\Delta = 13$

$15 - \circledast = 11$
$\circledast = 4$

$6 \times \square = 36$
$\square = 6$

$\circledcirc - 6 = 17$
$\circledcirc = 23$

$144 \div \spadesuit = 18$
$\spadesuit = 8$

$\heartsuit - 11 = 3$
$\heartsuit = 14$

Missing Numbers in Equations (J)

What value does each shape represent?

$\lozenge + 5 = 17$	$\spadesuit + 4 = 7$	$\square \times 6 = 42$	$\heartsuit - 15 = 19$
$\nabla + 5 = 25$	$\hexagon \times 10 = 140$	$17 \times \boxplus = 204$	$1 + \square = 9$
$\hexagon - 8 = 14$	$121 \div \square = 11$	$13 + \square = 27$	$\square \times 16 = 224$
$\divideontimes \times 13 = 260$	$\circledcirc - 6 = 5$	$49 \div \Delta = 7$	$\frown + 7 = 25$
$\blacklozenge \div 14 = 1$	$\square - 13 = 11$	$14 \div \diamondsuit = 2$	$\divideontimes + 5 = 11$
$\lozenge - 18 = 17$	$\lozenge - 15 = 16$	$9 + \blacklozenge = 17$	$\boxplus \div 13 = 4$
$13 + \odot = 27$	$5 + \boxplus = 24$	$\spadesuit - 12 = 16$	$252 \div \square = 18$
$\heartsuit + 8 = 12$	$\circledcirc - 17 = 5$	$1 \times \circledcirc = 8$	$18 - \boxplus = 2$
$14 \div \square = 7$	$9 - \square = 4$	$\diamondsuit \div 20 = 19$	$\lozenge \times 20 = 160$
$31 - \heartsuit = 11$	$\pentagon - 10 = 11$	$\square - 6 = 5$	$\boxtimes \div 13 = 7$

Missing Numbers in Equations (J)

What value does each shape represent?

◊ + 5 = 17
◊ = 12

♠ + 4 = 7
♠ = 3

□ × 6 = 42
□ = 7

♡ − 15 = 19
♡ = 34

∇ + 5 = 25
∇ = 20

⬡ × 10 = 140
⬡ = 14

17 × ⧉ = 204
⧉ = 12

1 + □ = 9
□ = 8

⬡ − 8 = 14
⬡ = 22

121 ÷ □ = 11
□ = 11

13 + □ = 27
□ = 14

▯ × 16 = 224
▯ = 14

※ × 13 = 260
※ = 20

◉ − 6 = 5
◉ = 11

49 ÷ Δ = 7
Δ = 7

⌓ + 7 = 25
⌓ = 18

♦ ÷ 14 = 1
♦ = 14

□ − 13 = 11
□ = 24

14 ÷ ✧ = 2
✧ = 7

※ + 5 = 11
※ = 6

◊ − 18 = 17
◊ = 35

◊ − 15 = 16
◊ = 31

9 + ♦ = 17
♦ = 8

⊞ ÷ 13 = 4
⊞ = 52

13 + ⊙ = 27
⊙ = 14

5 + ⧉ = 24
⧉ = 19

♠ − 12 = 16
♠ = 28

252 ÷ ▯ = 18
▯ = 14

♡ + 8 = 12
♡ = 4

◉ − 17 = 5
◉ = 22

1 × ◉ = 8
◉ = 8

18 − ⧉ = 2
⧉ = 16

14 ÷ □ = 7
□ = 2

9 − □ = 4
□ = 5

✧ ÷ 20 = 19
✧ = 380

◊ × 20 = 160
◊ = 8

31 − ♡ = 11
♡ = 20

⬠ − 10 = 11
⬠ = 21

▯ − 6 = 5
▯ = 11

⧖ ÷ 13 = 7
⧖ = 91