

$$(1) \quad 15 - 20 = \quad (16) \quad 16 - 19 =$$

$$(2) \quad 10 + 12 = \quad (17) \quad -12 + 5 =$$

$$(3) \quad 4 + 13 = \quad (18) \quad -17 + 12 =$$

$$(4) \quad 4 - 12 = \quad (19) \quad 20 + 10 =$$

$$(5) \quad -3 - 10 = \quad (20) \quad 1 + 14 =$$

$$(6) \quad 7 + 6 = \quad (21) \quad -1 - 13 =$$

$$(7) \quad -13 - 19 = \quad (22) \quad 8 + 12 =$$

$$(8) \quad -17 + 7 = \quad (23) \quad 8 + 6 =$$

$$(9) \quad 6 + 5 = \quad (24) \quad -4 - 8 =$$

$$(10) \quad 12 + 18 = \quad (25) \quad 15 + 10 =$$

$$(11) \quad 1 + 10 = \quad (26) \quad -20 - 13 =$$

$$(12) \quad 10 - 9 = \quad (27) \quad -5 - 1 =$$

$$(13) \quad -4 - 1 = \quad (28) \quad -1 + 13 =$$

$$(14) \quad 1 + 4 = \quad (29) \quad 17 - 7 =$$

$$(15) \quad 16 - 13 = \quad (30) \quad -11 + 4 =$$

- (1)  $-18 + 9 =$  (16)  $6 + 4 =$
- (2)  $15 - 17 =$  (17)  $-6 + 6 =$
- (3)  $1 + 16 =$  (18)  $-12 + 8 =$
- (4)  $-9 + 8 =$  (19)  $-2 - 8 =$
- (5)  $-19 + 12 =$  (20)  $-13 - 14 =$
- (6)  $6 + 1 =$  (21)  $-6 + 14 =$
- (7)  $20 - 1 =$  (22)  $-19 - 7 =$
- (8)  $8 - 4 =$  (23)  $1 + 14 =$
- (9)  $4 + 12 =$  (24)  $17 - 2 =$
- (10)  $-12 + 9 =$  (25)  $-11 + 12 =$
- (11)  $-2 - 12 =$  (26)  $-5 + 11 =$
- (12)  $5 - 9 =$  (27)  $-2 - 2 =$
- (13)  $9 + 11 =$  (28)  $-6 + 19 =$
- (14)  $8 + 4 =$  (29)  $12 + 1 =$
- (15)  $-15 - 18 =$  (30)  $15 + 12 =$

$$(1) \quad 20 - 15 = \quad (16) \quad - 18 + 2 =$$

$$(2) \quad - 1 - 11 = \quad (17) \quad 5 - 10 =$$

$$(3) \quad - 2 + 11 = \quad (18) \quad - 10 + 13 =$$

$$(4) \quad - 10 - 16 = \quad (19) \quad 5 - 9 =$$

$$(5) \quad - 9 - 13 = \quad (20) \quad 9 + 18 =$$

$$(6) \quad 2 + 2 = \quad (21) \quad - 7 + 15 =$$

$$(7) \quad 2 - 7 = \quad (22) \quad - 19 - 3 =$$

$$(8) \quad 20 + 1 = \quad (23) \quad 20 - 18 =$$

$$(9) \quad 8 - 10 = \quad (24) \quad - 15 + 12 =$$

$$(10) \quad 11 + 19 = \quad (25) \quad 19 - 6 =$$

$$(11) \quad - 5 + 4 = \quad (26) \quad - 14 - 8 =$$

$$(12) \quad - 7 + 2 = \quad (27) \quad 16 + 6 =$$

$$(13) \quad 5 + 14 = \quad (28) \quad 4 + 4 =$$

$$(14) \quad - 20 + 19 = \quad (29) \quad 20 - 11 =$$

$$(15) \quad - 7 - 20 = \quad (30) \quad - 12 - 11 =$$

$$(1) \quad -13 + 7 = \quad (16) \quad -19 - 6 =$$

$$(2) \quad 20 + 8 = \quad (17) \quad -3 + 7 =$$

$$(3) \quad 17 + 3 = \quad (18) \quad 5 - 20 =$$

$$(4) \quad -14 + 10 = \quad (19) \quad -5 + 19 =$$

$$(5) \quad 15 - 14 = \quad (20) \quad -5 + 9 =$$

$$(6) \quad 4 + 13 = \quad (21) \quad 4 + 5 =$$

$$(7) \quad 19 + 7 = \quad (22) \quad -10 - 18 =$$

$$(8) \quad 20 + 15 = \quad (23) \quad -3 + 6 =$$

$$(9) \quad 3 + 9 = \quad (24) \quad 15 + 12 =$$

$$(10) \quad -16 - 18 = \quad (25) \quad 18 - 20 =$$

$$(11) \quad -3 - 18 = \quad (26) \quad -8 + 9 =$$

$$(12) \quad 16 + 3 = \quad (27) \quad -10 + 11 =$$

$$(13) \quad 16 + 18 = \quad (28) \quad 13 + 4 =$$

$$(14) \quad -17 + 2 = \quad (29) \quad -9 - 3 =$$

$$(15) \quad 17 + 8 = \quad (30) \quad 6 - 5 =$$

- (1)  $1 - 19 =$  (16)  $- 17 - 10 =$
- (2)  $- 2 - 5 =$  (17)  $8 - 11 =$
- (3)  $- 13 - 18 =$  (18)  $8 - 11 =$
- (4)  $- 5 + 17 =$  (19)  $- 3 - 9 =$
- (5)  $5 - 3 =$  (20)  $14 - 14 =$
- (6)  $- 10 + 18 =$  (21)  $6 - 12 =$
- (7)  $1 - 19 =$  (22)  $19 - 2 =$
- (8)  $- 11 - 18 =$  (23)  $19 - 1 =$
- (9)  $- 11 - 10 =$  (24)  $- 4 + 3 =$
- (10)  $10 - 20 =$  (25)  $- 14 - 3 =$
- (11)  $4 - 2 =$  (26)  $9 + 4 =$
- (12)  $18 - 1 =$  (27)  $- 12 - 18 =$
- (13)  $- 12 - 3 =$  (28)  $- 2 + 17 =$
- (14)  $7 - 2 =$  (29)  $2 - 18 =$
- (15)  $15 + 1 =$  (30)  $11 - 18 =$

$$(1) \quad -13 - 2 = \quad (16) \quad 7 + 5 =$$

$$(2) \quad 4 - 11 = \quad (17) \quad 19 - 20 =$$

$$(3) \quad 13 - 12 = \quad (18) \quad -8 + 18 =$$

$$(4) \quad -12 - 1 = \quad (19) \quad -15 + 15 =$$

$$(5) \quad 7 + 15 = \quad (20) \quad -16 - 6 =$$

$$(6) \quad -14 - 3 = \quad (21) \quad 8 + 5 =$$

$$(7) \quad 7 - 16 = \quad (22) \quad -1 - 17 =$$

$$(8) \quad 10 + 11 = \quad (23) \quad -18 + 6 =$$

$$(9) \quad 9 - 13 = \quad (24) \quad -16 + 18 =$$

$$(10) \quad 6 - 12 = \quad (25) \quad -9 - 10 =$$

$$(11) \quad -9 - 12 = \quad (26) \quad -19 + 17 =$$

$$(12) \quad 2 - 18 = \quad (27) \quad 5 - 16 =$$

$$(13) \quad 3 - 19 = \quad (28) \quad 15 - 11 =$$

$$(14) \quad -10 - 10 = \quad (29) \quad 15 + 11 =$$

$$(15) \quad 4 - 7 = \quad (30) \quad 10 - 18 =$$

- (1)  $11 + 15 =$  (16)  $4 - 19 =$
- (2)  $17 - 5 =$  (17)  $4 + 4 =$
- (3)  $-11 + 2 =$  (18)  $-8 - 13 =$
- (4)  $-5 - 7 =$  (19)  $-20 + 11 =$
- (5)  $14 + 13 =$  (20)  $13 + 14 =$
- (6)  $6 + 10 =$  (21)  $17 - 4 =$
- (7)  $11 + 5 =$  (22)  $-20 + 8 =$
- (8)  $-13 + 18 =$  (23)  $18 - 11 =$
- (9)  $16 + 15 =$  (24)  $-1 - 11 =$
- (10)  $19 - 8 =$  (25)  $17 + 5 =$
- (11)  $19 + 5 =$  (26)  $-2 + 9 =$
- (12)  $3 + 3 =$  (27)  $7 + 10 =$
- (13)  $3 + 4 =$  (28)  $14 - 3 =$
- (14)  $-6 + 10 =$  (29)  $15 + 5 =$
- (15)  $-9 - 4 =$  (30)  $-8 + 11 =$

- (1)  $18 + 6 =$  (16)  $- 9 + 17 =$
- (2)  $1 + 14 =$  (17)  $- 17 - 8 =$
- (3)  $- 13 + 9 =$  (18)  $- 1 + 6 =$
- (4)  $- 17 - 19 =$  (19)  $14 + 15 =$
- (5)  $6 - 20 =$  (20)  $5 + 5 =$
- (6)  $- 11 + 3 =$  (21)  $14 - 6 =$
- (7)  $14 - 7 =$  (22)  $4 - 16 =$
- (8)  $- 8 - 19 =$  (23)  $- 12 - 7 =$
- (9)  $1 - 20 =$  (24)  $- 15 - 17 =$
- (10)  $13 + 17 =$  (25)  $2 + 19 =$
- (11)  $6 - 9 =$  (26)  $1 - 10 =$
- (12)  $- 12 + 14 =$  (27)  $- 4 - 15 =$
- (13)  $10 - 4 =$  (28)  $- 9 + 4 =$
- (14)  $5 - 14 =$  (29)  $- 1 - 8 =$
- (15)  $16 - 1 =$  (30)  $20 + 13 =$



$$(1) \quad 11 - 6 = \quad (16) \quad 7 + 2 =$$

$$(2) \quad -12 + 14 = \quad (17) \quad 16 + 8 =$$

$$(3) \quad 9 + 18 = \quad (18) \quad -13 - 11 =$$

$$(4) \quad -15 - 8 = \quad (19) \quad 18 + 6 =$$

$$(5) \quad -13 - 18 = \quad (20) \quad 8 - 20 =$$

$$(6) \quad 1 + 2 = \quad (21) \quad -13 - 15 =$$

$$(7) \quad -1 - 15 = \quad (22) \quad -12 + 10 =$$

$$(8) \quad 20 + 10 = \quad (23) \quad 14 - 16 =$$

$$(9) \quad -14 + 3 = \quad (24) \quad 3 - 11 =$$

$$(10) \quad -5 - 18 = \quad (25) \quad 9 + 13 =$$

$$(11) \quad -17 - 2 = \quad (26) \quad 15 - 11 =$$

$$(12) \quad 5 + 5 = \quad (27) \quad 13 - 13 =$$

$$(13) \quad -12 + 18 = \quad (28) \quad 15 + 8 =$$

$$(14) \quad -12 - 8 = \quad (29) \quad 10 - 11 =$$

$$(15) \quad -13 - 1 = \quad (30) \quad -1 - 19 =$$

$$(1) \quad 2 + 11 = \quad (16) \quad - 13 + 20 =$$

$$(2) \quad 2 - 12 = \quad (17) \quad 5 - 19 =$$

$$(3) \quad - 12 + 14 = \quad (18) \quad - 12 - 7 =$$

$$(4) \quad 5 - 8 = \quad (19) \quad 13 + 3 =$$

$$(5) \quad 6 - 6 = \quad (20) \quad - 16 + 2 =$$

$$(6) \quad - 2 - 15 = \quad (21) \quad - 14 + 5 =$$

$$(7) \quad - 16 + 2 = \quad (22) \quad 3 - 15 =$$

$$(8) \quad - 3 - 16 = \quad (23) \quad - 8 - 3 =$$

$$(9) \quad - 10 + 12 = \quad (24) \quad - 6 - 7 =$$

$$(10) \quad - 8 + 4 = \quad (25) \quad 12 + 15 =$$

$$(11) \quad 1 + 15 = \quad (26) \quad - 1 - 16 =$$

$$(12) \quad - 2 - 16 = \quad (27) \quad - 1 - 7 =$$

$$(13) \quad - 14 - 4 = \quad (28) \quad 10 + 16 =$$

$$(14) \quad 3 + 15 = \quad (29) \quad 9 + 10 =$$

$$(15) \quad 1 - 16 = \quad (30) \quad 5 - 15 =$$

- (1)  $-2 - 16 =$  (16)  $-17 + 4 =$
- (2)  $19 - 20 =$  (17)  $-2 - 7 =$
- (3)  $12 + 11 =$  (18)  $-7 + 19 =$
- (4)  $-11 - 4 =$  (19)  $-19 + 14 =$
- (5)  $6 + 13 =$  (20)  $-19 - 15 =$
- (6)  $15 - 18 =$  (21)  $9 - 1 =$
- (7)  $19 + 2 =$  (22)  $15 + 6 =$
- (8)  $20 - 12 =$  (23)  $-11 - 4 =$
- (9)  $12 + 14 =$  (24)  $11 + 6 =$
- (10)  $2 - 1 =$  (25)  $13 - 6 =$
- (11)  $2 - 7 =$  (26)  $-1 + 2 =$
- (12)  $-9 + 13 =$  (27)  $2 + 10 =$
- (13)  $19 + 19 =$  (28)  $-9 - 6 =$
- (14)  $-18 - 20 =$  (29)  $17 + 16 =$
- (15)  $-3 + 9 =$  (30)  $13 + 10 =$

- |      |   |    |   |    |   |      |   |    |   |    |   |
|------|---|----|---|----|---|------|---|----|---|----|---|
| (1)  | - | 13 | + | 16 | = | (16) | - | 10 | - | 19 | = |
| (2)  | - | 9  | + | 11 | = | (17) | - | 6  | + | 12 | = |
| (3)  | - | 6  | - | 6  | = | (18) | - | 3  | + | 11 | = |
| (4)  |   | 10 | + | 18 | = | (19) |   | 11 | + | 13 | = |
| (5)  |   | 19 | + | 11 | = | (20) |   | 19 | - | 16 | = |
| (6)  | - | 10 | + | 8  | = | (21) | - | 2  | + | 3  | = |
| (7)  |   | 17 | + | 10 | = | (22) | - | 9  | - | 17 | = |
| (8)  |   | 19 | - | 6  | = | (23) | - | 6  | - | 15 | = |
| (9)  |   | 12 | + | 12 | = | (24) |   | 18 | + | 13 | = |
| (10) |   | 4  | - | 1  | = | (25) | - | 16 | + | 4  | = |
| (11) |   | 18 | + | 17 | = | (26) | - | 5  | + | 3  | = |
| (12) |   | 14 | - | 18 | = | (27) |   | 3  | - | 10 | = |
| (13) |   | 16 | - | 5  | = | (28) |   | 6  | + | 6  | = |
| (14) |   | 1  | - | 7  | = | (29) |   | 6  | + | 4  | = |
| (15) | - | 13 | + | 13 | = | (30) | - | 15 | + | 3  | = |

- |      |   |    |   |    |   |      |   |    |   |    |   |
|------|---|----|---|----|---|------|---|----|---|----|---|
| (1)  | - | 4  | - | 2  | = | (16) | - | 2  | - | 19 | = |
| (2)  |   | 4  | + | 12 | = | (17) |   | 3  | - | 19 | = |
| (3)  | - | 15 | + | 2  | = | (18) | - | 4  | + | 4  | = |
| (4)  | - | 4  | + | 15 | = | (19) |   | 7  | - | 1  | = |
| (5)  | - | 10 | + | 6  | = | (20) |   | 6  | - | 19 | = |
| (6)  | - | 6  | - | 3  | = | (21) |   | 19 | + | 15 | = |
| (7)  |   | 1  | - | 17 | = | (22) |   | 17 | - | 18 | = |
| (8)  | - | 19 | + | 14 | = | (23) |   | 9  | - | 15 | = |
| (9)  | - | 16 | - | 15 | = | (24) |   | 10 | - | 3  | = |
| (10) | - | 5  | - | 15 | = | (25) | - | 2  | + | 17 | = |
| (11) | - | 17 | - | 4  | = | (26) |   | 14 | - | 9  | = |
| (12) |   | 10 | - | 17 | = | (27) |   | 5  | + | 6  | = |
| (13) |   | 3  | + | 7  | = | (28) |   | 3  | - | 10 | = |
| (14) | - | 16 | + | 10 | = | (29) | - | 18 | - | 11 | = |
| (15) |   | 12 | + | 6  | = | (30) |   | 7  | - | 7  | = |

- (1)  $-11 - 4 =$  (16)  $10 - 4 =$
- (2)  $6 - 7 =$  (17)  $-1 + 17 =$
- (3)  $15 - 17 =$  (18)  $5 + 17 =$
- (4)  $6 - 17 =$  (19)  $6 + 20 =$
- (5)  $-7 - 12 =$  (20)  $-1 + 10 =$
- (6)  $13 + 14 =$  (21)  $-20 + 1 =$
- (7)  $10 - 5 =$  (22)  $-11 + 16 =$
- (8)  $9 - 7 =$  (23)  $7 + 1 =$
- (9)  $17 + 15 =$  (24)  $16 - 14 =$
- (10)  $-2 - 7 =$  (25)  $-4 - 18 =$
- (11)  $11 - 19 =$  (26)  $1 + 5 =$
- (12)  $10 + 2 =$  (27)  $-16 - 20 =$
- (13)  $12 - 14 =$  (28)  $11 + 15 =$
- (14)  $-4 - 20 =$  (29)  $8 - 5 =$
- (15)  $7 + 6 =$  (30)  $-5 + 7 =$

- (1)  $9 + 12 =$  (16)  $- 12 - 18 =$
- (2)  $- 11 - 20 =$  (17)  $- 15 + 15 =$
- (3)  $5 + 16 =$  (18)  $3 + 1 =$
- (4)  $- 11 - 6 =$  (19)  $20 + 17 =$
- (5)  $- 10 + 5 =$  (20)  $14 - 10 =$
- (6)  $- 11 + 12 =$  (21)  $18 - 17 =$
- (7)  $9 - 14 =$  (22)  $- 11 + 12 =$
- (8)  $- 12 + 4 =$  (23)  $- 13 - 7 =$
- (9)  $- 20 + 11 =$  (24)  $20 - 3 =$
- (10)  $- 2 + 2 =$  (25)  $- 8 - 16 =$
- (11)  $- 12 + 19 =$  (26)  $13 + 16 =$
- (12)  $12 - 14 =$  (27)  $18 - 12 =$
- (13)  $3 - 20 =$  (28)  $- 7 + 15 =$
- (14)  $- 14 - 13 =$  (29)  $2 + 19 =$
- (15)  $- 11 - 20 =$  (30)  $- 19 + 3 =$

- |      |    |    |    |    |      |      |    |    |    |    |   |
|------|----|----|----|----|------|------|----|----|----|----|---|
| (1)  | 20 | -  | 8  | =  | (16) | 10   | +  | 18 | =  |    |   |
| (2)  | -  | 5  | +  | 16 | =    | (17) | -  | 4  | +  | 14 | = |
| (3)  | 2  | +  | 1  | =  | (18) | 3    | +  | 15 | =  |    |   |
| (4)  | -  | 10 | -  | 16 | =    | (19) | 5  | +  | 12 | =  |   |
| (5)  | 1  | -  | 1  | =  | (20) | -    | 18 | -  | 7  | =  |   |
| (6)  | -  | 7  | -  | 12 | =    | (21) | 7  | +  | 19 | =  |   |
| (7)  | 13 | +  | 4  | =  | (22) | 6    | +  | 3  | =  |    |   |
| (8)  | -  | 9  | -  | 5  | =    | (23) | -  | 2  | -  | 5  | = |
| (9)  | -  | 9  | +  | 2  | =    | (24) | -  | 18 | -  | 2  | = |
| (10) | 7  | +  | 1  | =  | (25) | -    | 3  | +  | 9  | =  |   |
| (11) | -  | 14 | +  | 13 | =    | (26) | -  | 5  | +  | 12 | = |
| (12) | -  | 11 | -  | 3  | =    | (27) | 4  | +  | 8  | =  |   |
| (13) | -  | 3  | -  | 15 | =    | (28) | 13 | -  | 10 | =  |   |
| (14) | -  | 15 | -  | 13 | =    | (29) | 2  | +  | 5  | =  |   |
| (15) | 9  | +  | 14 | =  | (30) | 14   | +  | 2  | =  |    |   |



$$(1) \quad 11 + 6 = \quad (16) \quad - 8 + 19 =$$

$$(2) \quad 16 + 12 = \quad (17) \quad 3 - 4 =$$

$$(3) \quad 12 - 17 = \quad (18) \quad - 1 - 3 =$$

$$(4) \quad - 15 + 2 = \quad (19) \quad - 15 + 17 =$$

$$(5) \quad - 6 + 6 = \quad (20) \quad - 1 - 5 =$$

$$(6) \quad - 9 - 13 = \quad (21) \quad - 4 + 9 =$$

$$(7) \quad 8 + 19 = \quad (22) \quad - 9 - 15 =$$

$$(8) \quad - 6 - 9 = \quad (23) \quad - 19 - 4 =$$

$$(9) \quad - 17 + 12 = \quad (24) \quad 15 - 9 =$$

$$(10) \quad 8 - 13 = \quad (25) \quad - 20 - 18 =$$

$$(11) \quad 8 + 2 = \quad (26) \quad 1 + 19 =$$

$$(12) \quad 18 + 20 = \quad (27) \quad - 2 - 5 =$$

$$(13) \quad 11 + 14 = \quad (28) \quad 8 - 3 =$$

$$(14) \quad - 13 - 6 = \quad (29) \quad 14 - 7 =$$

$$(15) \quad 16 + 13 = \quad (30) \quad - 17 + 5 =$$

- (1)  $-1 - 4 =$  (16)  $16 - 2 =$
- (2)  $-7 - 11 =$  (17)  $1 - 20 =$
- (3)  $-20 - 18 =$  (18)  $19 - 9 =$
- (4)  $-19 + 14 =$  (19)  $-1 - 4 =$
- (5)  $8 - 5 =$  (20)  $18 - 1 =$
- (6)  $-9 + 10 =$  (21)  $6 + 15 =$
- (7)  $-8 - 11 =$  (22)  $2 - 3 =$
- (8)  $18 - 11 =$  (23)  $7 - 9 =$
- (9)  $5 - 15 =$  (24)  $17 + 6 =$
- (10)  $-4 + 8 =$  (25)  $-7 + 11 =$
- (11)  $-3 + 6 =$  (26)  $15 - 2 =$
- (12)  $-14 - 3 =$  (27)  $-11 - 10 =$
- (13)  $-19 - 3 =$  (28)  $18 + 8 =$
- (14)  $-2 - 3 =$  (29)  $-3 - 10 =$
- (15)  $17 + 15 =$  (30)  $16 - 14 =$

$$(1) \quad -7 + 3 = \quad (16) \quad 10 + 11 =$$

$$(2) \quad 12 - 10 = \quad (17) \quad -16 - 3 =$$

$$(3) \quad -19 - 13 = \quad (18) \quad 3 + 6 =$$

$$(4) \quad 8 + 18 = \quad (19) \quad 2 + 13 =$$

$$(5) \quad 8 + 11 = \quad (20) \quad 12 - 3 =$$

$$(6) \quad 3 + 14 = \quad (21) \quad 4 + 7 =$$

$$(7) \quad 12 - 20 = \quad (22) \quad 15 - 14 =$$

$$(8) \quad -16 + 12 = \quad (23) \quad 14 - 1 =$$

$$(9) \quad -17 + 1 = \quad (24) \quad -9 - 15 =$$

$$(10) \quad -20 - 19 = \quad (25) \quad -10 - 9 =$$

$$(11) \quad -16 + 15 = \quad (26) \quad 13 + 9 =$$

$$(12) \quad 10 + 12 = \quad (27) \quad 9 + 19 =$$

$$(13) \quad 6 + 14 = \quad (28) \quad 1 - 12 =$$

$$(14) \quad 13 - 17 = \quad (29) \quad 11 - 5 =$$

$$(15) \quad -10 - 20 = \quad (30) \quad 7 - 15 =$$

- |      |              |      |              |
|------|--------------|------|--------------|
| (1)  | $-11 - 20 =$ | (16) | $6 - 12 =$   |
| (2)  | $-10 - 11 =$ | (17) | $-20 + 16 =$ |
| (3)  | $4 - 11 =$   | (18) | $-18 + 4 =$  |
| (4)  | $-17 + 4 =$  | (19) | $-18 - 5 =$  |
| (5)  | $6 - 14 =$   | (20) | $8 - 12 =$   |
| (6)  | $-1 + 6 =$   | (21) | $10 - 12 =$  |
| (7)  | $19 - 6 =$   | (22) | $10 + 1 =$   |
| (8)  | $-5 - 7 =$   | (23) | $-10 + 19 =$ |
| (9)  | $-3 + 11 =$  | (24) | $-10 + 12 =$ |
| (10) | $-10 + 8 =$  | (25) | $17 - 5 =$   |
| (11) | $10 - 18 =$  | (26) | $-9 + 18 =$  |
| (12) | $5 - 18 =$   | (27) | $-18 + 19 =$ |
| (13) | $-3 - 17 =$  | (28) | $-17 - 7 =$  |
| (14) | $-3 + 16 =$  | (29) | $-3 + 9 =$   |
| (15) | $8 + 4 =$    | (30) | $4 + 17 =$   |

- |      |              |      |              |
|------|--------------|------|--------------|
| (1)  | $-17 - 5 =$  | (16) | $2 + 5 =$    |
| (2)  | $-16 - 10 =$ | (17) | $-11 + 12 =$ |
| (3)  | $20 + 16 =$  | (18) | $-7 - 9 =$   |
| (4)  | $-1 - 20 =$  | (19) | $6 - 7 =$    |
| (5)  | $-11 - 6 =$  | (20) | $-6 - 5 =$   |
| (6)  | $5 + 20 =$   | (21) | $-19 - 6 =$  |
| (7)  | $9 - 17 =$   | (22) | $6 + 18 =$   |
| (8)  | $-1 - 14 =$  | (23) | $-15 - 2 =$  |
| (9)  | $16 - 5 =$   | (24) | $2 + 13 =$   |
| (10) | $18 - 16 =$  | (25) | $11 + 11 =$  |
| (11) | $6 + 13 =$   | (26) | $-13 + 5 =$  |
| (12) | $11 + 12 =$  | (27) | $3 + 6 =$    |
| (13) | $-1 + 3 =$   | (28) | $19 - 15 =$  |
| (14) | $6 + 15 =$   | (29) | $-6 - 19 =$  |
| (15) | $-18 + 7 =$  | (30) | $-16 - 7 =$  |

- (1)  $2 + 9 =$  (16)  $3 - 13 =$
- (2)  $-10 - 8 =$  (17)  $13 + 19 =$
- (3)  $-11 - 13 =$  (18)  $2 + 9 =$
- (4)  $-16 - 3 =$  (19)  $-17 - 17 =$
- (5)  $2 + 19 =$  (20)  $-11 - 18 =$
- (6)  $11 + 4 =$  (21)  $10 + 18 =$
- (7)  $1 + 16 =$  (22)  $2 - 10 =$
- (8)  $-14 + 8 =$  (23)  $-14 - 13 =$
- (9)  $-4 + 15 =$  (24)  $12 - 19 =$
- (10)  $5 - 14 =$  (25)  $-11 + 20 =$
- (11)  $-14 - 1 =$  (26)  $-4 - 9 =$
- (12)  $-13 + 20 =$  (27)  $13 + 8 =$
- (13)  $13 + 13 =$  (28)  $-20 - 11 =$
- (14)  $8 + 8 =$  (29)  $16 - 3 =$
- (15)  $-15 + 19 =$  (30)  $-13 + 10 =$

- |      |   |    |   |    |   |      |   |    |   |    |   |
|------|---|----|---|----|---|------|---|----|---|----|---|
| (1)  | - | 3  | + | 1  | = | (16) | - | 15 | + | 4  | = |
| (2)  | - | 18 | + | 6  | = | (17) |   | 3  | - | 10 | = |
| (3)  | - | 14 | - | 5  | = | (18) | - | 2  | - | 12 | = |
| (4)  | - | 18 | - | 20 | = | (19) |   | 13 | - | 7  | = |
| (5)  | - | 15 | + | 6  | = | (20) | - | 11 | - | 12 | = |
| (6)  |   | 6  | - | 20 | = | (21) | - | 3  | + | 11 | = |
| (7)  |   | 19 | - | 2  | = | (22) |   | 12 | + | 10 | = |
| (8)  | - | 8  | - | 17 | = | (23) | - | 1  | - | 5  | = |
| (9)  |   | 11 | + | 18 | = | (24) | - | 19 | + | 8  | = |
| (10) | - | 12 | - | 18 | = | (25) |   | 18 | - | 8  | = |
| (11) |   | 20 | + | 16 | = | (26) |   | 17 | - | 11 | = |
| (12) | - | 17 | + | 7  | = | (27) |   | 13 | + | 1  | = |
| (13) |   | 10 | + | 15 | = | (28) |   | 19 | - | 20 | = |
| (14) | - | 14 | - | 1  | = | (29) |   | 20 | - | 9  | = |
| (15) | - | 15 | + | 5  | = | (30) | - | 8  | + | 3  | = |

- (1)  $10 - 13 =$  (16)  $- 6 + 15 =$
- (2)  $- 1 + 12 =$  (17)  $- 14 + 8 =$
- (3)  $10 - 11 =$  (18)  $7 + 1 =$
- (4)  $18 - 9 =$  (19)  $9 + 14 =$
- (5)  $6 + 2 =$  (20)  $- 16 + 2 =$
- (6)  $16 - 11 =$  (21)  $- 1 + 15 =$
- (7)  $- 3 + 11 =$  (22)  $5 - 10 =$
- (8)  $12 + 15 =$  (23)  $- 15 - 17 =$
- (9)  $- 20 + 5 =$  (24)  $18 + 9 =$
- (10)  $- 19 - 19 =$  (25)  $- 15 - 14 =$
- (11)  $- 7 - 15 =$  (26)  $- 6 + 6 =$
- (12)  $- 10 + 9 =$  (27)  $- 9 - 2 =$
- (13)  $6 + 4 =$  (28)  $13 - 9 =$
- (14)  $13 + 16 =$  (29)  $- 2 - 9 =$
- (15)  $15 + 2 =$  (30)  $15 + 8 =$



- (1)  $9 - 19 =$  (16)  $- 18 + 8 =$
- (2)  $- 16 - 12 =$  (17)  $7 + 12 =$
- (3)  $20 + 20 =$  (18)  $2 + 19 =$
- (4)  $1 - 5 =$  (19)  $- 6 + 8 =$
- (5)  $- 19 + 6 =$  (20)  $17 - 17 =$
- (6)  $4 + 10 =$  (21)  $- 3 - 20 =$
- (7)  $- 15 - 14 =$  (22)  $12 + 6 =$
- (8)  $- 4 + 11 =$  (23)  $9 - 13 =$
- (9)  $15 + 10 =$  (24)  $- 10 - 1 =$
- (10)  $- 10 + 18 =$  (25)  $- 10 + 18 =$
- (11)  $- 10 + 10 =$  (26)  $1 + 15 =$
- (12)  $- 2 - 13 =$  (27)  $14 - 5 =$
- (13)  $- 9 - 5 =$  (28)  $- 10 - 4 =$
- (14)  $17 - 3 =$  (29)  $3 + 3 =$
- (15)  $- 16 + 18 =$  (30)  $12 - 3 =$

$$(1) \quad -19 - 4 = \quad (16) \quad -7 - 3 =$$

$$(2) \quad -7 + 12 = \quad (17) \quad 2 - 8 =$$

$$(3) \quad -6 + 15 = \quad (18) \quad -12 + 4 =$$

$$(4) \quad -11 - 11 = \quad (19) \quad -4 + 11 =$$

$$(5) \quad 3 + 10 = \quad (20) \quad -11 - 18 =$$

$$(6) \quad -4 + 18 = \quad (21) \quad -13 + 8 =$$

$$(7) \quad 18 - 19 = \quad (22) \quad 14 + 16 =$$

$$(8) \quad 7 + 10 = \quad (23) \quad -4 - 15 =$$

$$(9) \quad -1 - 7 = \quad (24) \quad 3 - 1 =$$

$$(10) \quad 8 + 13 = \quad (25) \quad -18 - 8 =$$

$$(11) \quad -20 + 12 = \quad (26) \quad -6 - 12 =$$

$$(12) \quad 1 + 2 = \quad (27) \quad 19 + 8 =$$

$$(13) \quad -8 - 9 = \quad (28) \quad 14 - 20 =$$

$$(14) \quad 12 + 5 = \quad (29) \quad 16 + 10 =$$

$$(15) \quad 2 + 3 = \quad (30) \quad -15 + 15 =$$

- (1)  $15 + 18 =$  (16)  $6 - 9 =$
- (2)  $15 - 19 =$  (17)  $6 - 11 =$
- (3)  $- 8 - 5 =$  (18)  $- 15 - 19 =$
- (4)  $- 15 + 12 =$  (19)  $9 - 3 =$
- (5)  $16 - 9 =$  (20)  $5 + 12 =$
- (6)  $4 + 15 =$  (21)  $2 + 7 =$
- (7)  $- 20 - 8 =$  (22)  $- 18 + 16 =$
- (8)  $16 + 7 =$  (23)  $18 - 12 =$
- (9)  $1 + 2 =$  (24)  $17 - 20 =$
- (10)  $9 - 5 =$  (25)  $15 + 12 =$
- (11)  $- 13 + 8 =$  (26)  $- 7 + 17 =$
- (12)  $4 - 12 =$  (27)  $9 - 13 =$
- (13)  $9 + 11 =$  (28)  $19 - 15 =$
- (14)  $- 6 - 7 =$  (29)  $- 9 - 10 =$
- (15)  $19 + 6 =$  (30)  $- 19 - 8 =$

- |      |   |    |   |    |   |      |   |    |   |    |   |
|------|---|----|---|----|---|------|---|----|---|----|---|
| (1)  | - | 5  | - | 6  | = | (16) | - | 14 | + | 1  | = |
| (2)  | - | 12 | - | 2  | = | (17) | - | 14 | - | 6  | = |
| (3)  |   | 9  | - | 16 | = | (18) |   | 5  | + | 17 | = |
| (4)  | - | 19 | - | 10 | = | (19) | - | 4  | - | 13 | = |
| (5)  |   | 4  | + | 15 | = | (20) | - | 20 | - | 16 | = |
| (6)  | - | 14 | + | 20 | = | (21) |   | 16 | - | 10 | = |
| (7)  | - | 14 | + | 10 | = | (22) | - | 8  | - | 2  | = |
| (8)  |   | 2  | - | 13 | = | (23) |   | 3  | - | 9  | = |
| (9)  | - | 5  | + | 9  | = | (24) |   | 1  | + | 4  | = |
| (10) |   | 4  | + | 2  | = | (25) | - | 5  | + | 7  | = |
| (11) |   | 4  | + | 20 | = | (26) | - | 2  | - | 12 | = |
| (12) |   | 8  | + | 18 | = | (27) |   | 9  | - | 9  | = |
| (13) |   | 5  | + | 11 | = | (28) | - | 15 | + | 14 | = |
| (14) |   | 11 | + | 5  | = | (29) | - | 18 | + | 16 | = |
| (15) | - | 19 | - | 15 | = | (30) | - | 13 | + | 1  | = |

- (1)  $15 + 6 =$  (16)  $- 2 - 11 =$
- (2)  $- 9 - 6 =$  (17)  $6 - 2 =$
- (3)  $15 - 19 =$  (18)  $- 10 - 1 =$
- (4)  $- 7 + 10 =$  (19)  $18 - 2 =$
- (5)  $- 8 + 17 =$  (20)  $2 + 3 =$
- (6)  $- 10 - 1 =$  (21)  $- 4 + 4 =$
- (7)  $14 - 11 =$  (22)  $7 + 13 =$
- (8)  $9 + 17 =$  (23)  $6 - 10 =$
- (9)  $- 2 - 8 =$  (24)  $19 - 13 =$
- (10)  $17 + 7 =$  (25)  $8 - 8 =$
- (11)  $- 15 - 17 =$  (26)  $- 9 - 17 =$
- (12)  $- 11 - 1 =$  (27)  $3 + 14 =$
- (13)  $19 + 9 =$  (28)  $9 + 10 =$
- (14)  $- 13 - 10 =$  (29)  $18 + 7 =$
- (15)  $13 + 11 =$  (30)  $8 - 11 =$

$$(1) \quad -5 - 3 = \quad (16) \quad 9 - 15 =$$

$$(2) \quad 3 - 15 = \quad (17) \quad 12 - 20 =$$

$$(3) \quad 16 + 17 = \quad (18) \quad -17 + 17 =$$

$$(4) \quad 11 - 4 = \quad (19) \quad -8 - 4 =$$

$$(5) \quad -5 + 4 = \quad (20) \quad 12 + 12 =$$

$$(6) \quad 15 - 9 = \quad (21) \quad 7 + 14 =$$

$$(7) \quad -9 + 18 = \quad (22) \quad 1 + 10 =$$

$$(8) \quad 6 - 12 = \quad (23) \quad 15 + 7 =$$

$$(9) \quad 10 + 13 = \quad (24) \quad -5 + 15 =$$

$$(10) \quad 20 + 1 = \quad (25) \quad -15 + 20 =$$

$$(11) \quad -15 + 11 = \quad (26) \quad -16 + 20 =$$

$$(12) \quad 2 - 15 = \quad (27) \quad 17 - 20 =$$

$$(13) \quad 8 + 14 = \quad (28) \quad -7 - 10 =$$

$$(14) \quad 5 - 7 = \quad (29) \quad -1 + 1 =$$

$$(15) \quad -19 - 14 = \quad (30) \quad -10 + 9 =$$

- (1)  $11 + 17 =$  (16)  $- 17 - 9 =$
- (2)  $- 8 - 13 =$  (17)  $1 - 4 =$
- (3)  $2 - 11 =$  (18)  $17 + 3 =$
- (4)  $- 1 + 6 =$  (19)  $- 11 + 20 =$
- (5)  $- 6 - 1 =$  (20)  $- 1 - 3 =$
- (6)  $- 18 - 17 =$  (21)  $- 17 - 20 =$
- (7)  $7 + 14 =$  (22)  $19 + 4 =$
- (8)  $- 16 + 16 =$  (23)  $- 10 + 15 =$
- (9)  $16 - 16 =$  (24)  $- 9 + 8 =$
- (10)  $- 4 + 17 =$  (25)  $- 5 - 2 =$
- (11)  $- 11 - 10 =$  (26)  $6 - 5 =$
- (12)  $- 8 + 19 =$  (27)  $- 12 - 2 =$
- (13)  $- 10 + 11 =$  (28)  $- 16 - 10 =$
- (14)  $- 18 + 3 =$  (29)  $16 + 1 =$
- (15)  $- 17 - 15 =$  (30)  $- 13 - 5 =$

$$(1) \quad 15 - 2 =$$

$$(16) \quad 7 - 13 =$$

$$(2) \quad 5 - 5 =$$

$$(17) \quad -18 + 18 =$$

$$(3) \quad 3 + 4 =$$

$$(18) \quad 9 + 17 =$$

$$(4) \quad 20 + 12 =$$

$$(19) \quad 16 + 20 =$$

$$(5) \quad -1 + 5 =$$

$$(20) \quad -16 - 10 =$$

$$(6) \quad 10 + 9 =$$

$$(21) \quad 10 - 14 =$$

$$(7) \quad -13 - 1 =$$

$$(22) \quad 9 - 12 =$$

$$(8) \quad 17 - 14 =$$

$$(23) \quad 6 - 3 =$$

$$(9) \quad 4 + 4 =$$

$$(24) \quad -9 - 1 =$$

$$(10) \quad 18 + 3 =$$

$$(25) \quad -8 - 19 =$$

$$(11) \quad -19 - 10 =$$

$$(26) \quad -12 + 4 =$$

$$(12) \quad -9 - 1 =$$

$$(27) \quad -17 - 13 =$$

$$(13) \quad 19 + 15 =$$

$$(28) \quad -7 + 7 =$$

$$(14) \quad -8 - 11 =$$

$$(29) \quad -3 - 8 =$$

$$(15) \quad 18 - 5 =$$

$$(30) \quad -3 - 19 =$$