

1 Evaluate:
0-0

0-1

0-2

0-3

1-0

1-1

1-2

1-3

2-0

2-1

2-2

2-3

2-4

2-5

2-6

2-7

3-4

3-5

3-6

3-7

3-4

3-5

3-6

3-7

4-4

4-5

4-6

4-7

4-14

4-15

4-16

4-17

0 ± 0 0 ± 1 0 ± 2 0 ± 3

1 ± 0 1 ± 1 1 ± 2 1 ± 3

2 ± 0 2 ± 1 2 ± 2 2 ± 3

2 ± 4 2 ± 5 2 ± 6 2 ± 7

3 ± 4 3 ± 5 3 ± 6 3 ± 7

3 ± 4 3 ± 5 3 ± 6 3 ± 7

4 ± 4 4 ± 5 4 ± 6 4 ± 7

4 ± 14 4 ± 15 4 ± 16 4 ± 17

0--0 0--1 0--2 0--3

1--0 1--1 1--2 1--3

2--0 2--1 2--2 2--3

2--4 2--5 2--6 2--7

3--4 3--5 3--6 3--7

3--4 3--5 3--6 3--7

4--4 4--5 4--6 4--7

4--14 4--15 4--16 4--17

-0-0 -0-1 -0-2 -0-3

-1-0 -1-1 -1-2 -1-3

-2-0 -2-1 -2-2 -2-3

-2-4 -2-5 -2-6 -2-7

-3-4 -3-5 -3-6 -3-7

-3-4 -3-5 -3-6 -3-7

-4-4 -4-5 -4-6 -4-7

-4-14 -4-15 -4-16 -4-17

$-0+0$ $-0+1$ $-0+2$ $-0+3$

$-1+0$ $-1+1$ $-1+2$ $-1+3$

$-2+0$ $-2+1$ $-2+2$ $-2+3$

$-2+4$ $-2+5$ $-2+6$ $-2+7$

$-3+4$ $-3+5$ $-3+6$ $-3+7$

$-3+4$ $-3+5$ $-3+6$ $-3+7$

$-4+4$ $-4+5$ $-4+6$ $-4+7$

$-4+14$ $-4+15$ $-4+16$ $-4+17$

0×0

0×1

0×-1

0×-199

1×0

1×1

1×-1

1×-199

2×0

2×1

2×-1

2×-199

-0×0

-0×1

-0×-1

-0×-199

-1×0

-1×1

-1×-1

-1×-199

-2×0

-2×1

-2×-1

-2×-199

$0 \div -1$

$1 \div -1$

$-1 \div -1$

$-199 \div -1$

$0 \div -2$

$1 \div -2$

$-1 \div -2$

$-200 \div -2$

$$0^0 \quad 1^0 \quad -1^0 \quad i$$

$$0^1 \quad 1^1 \quad -1^1 \quad i$$

$$0^2 \quad 1^2 \quad -1^2 \quad i$$

$$0^3 \quad 1^3 \quad -1^3 \quad i$$

$$0^4 \quad 1^4 \quad -1^4 \quad i$$

$$2^0 \quad 3^0 \quad -2^0 \quad i$$

$$2^1 \quad 3^1 \quad -2^1 \quad i$$

$$2^2 \quad 3^2 \quad -2^2 \quad i$$

$$2^3 \quad 3^3 \quad -2^3 \quad i$$

$$2^4 \quad 3^4 \quad -2^4 \quad i$$

$$\frac{-2}{-1}$$

$$\frac{-4}{1}$$

$$\frac{6}{-1}$$

$$\frac{-8}{-1}$$

$$\frac{-2}{-2}$$

$$\frac{-4}{2}$$

$$\frac{6}{-2}$$

$$\frac{-8}{-2}$$

$$\frac{-2}{-6}$$

$$\frac{-4}{6}$$

$$\frac{6}{-6}$$

$$\frac{-8}{-6}$$

$$\frac{-10}{-6}$$

$$\frac{-20}{6}$$

$$\frac{30}{-6}$$

$$\frac{-40}{-6}$$

4. Work out the fraction sums:

$$\frac{-1}{1} + \frac{1}{1}$$

$$\frac{1}{2} + \frac{-1}{2}$$

$$\frac{1}{-3} + \frac{1}{3}$$

$$\frac{1}{4} + \frac{1}{-4}$$

$$\frac{-2}{1} + \frac{1}{1}$$

$$\frac{-2}{2} + \frac{-1}{2}$$

$$\frac{-2}{-3} + \frac{1}{3}$$

$$\frac{-2}{4} + \frac{1}{-4}$$

$$\frac{-1}{1} + \frac{-2}{1}$$

$$\frac{1}{2} + \frac{-2}{2}$$

$$\frac{1}{-3} + \frac{-2}{3}$$

$$\frac{1}{4} + \frac{-2}{-4}$$

$$\frac{-2}{-1} + \frac{2}{1}$$

$$\frac{2}{-2} + \frac{-2}{2}$$

$$\frac{2}{-3} + \frac{2}{3}$$

$$\frac{2}{-4} + \frac{2}{-4}$$

$$\frac{-1}{1} + \frac{1}{-1}$$

$$\frac{1}{1} + \frac{-1}{-2}$$

$$\frac{1}{-1} + \frac{1}{-3}$$

$$\frac{1}{1} + \frac{1}{-4}$$

$$\frac{-2}{1} + \frac{-1}{1}$$

$$\frac{-2}{1} + \frac{-1}{2}$$

$$\frac{-2}{-1} + \frac{-1}{-3}$$

$$\frac{-2}{1} + \frac{-1}{-4}$$

$$\frac{-1}{-2} + \frac{2}{1}$$

$$\frac{-1}{-2} + \frac{-2}{2}$$

$$\frac{-1}{-2} + \frac{2}{3}$$

$$\frac{-1}{-2} + \frac{2}{-4}$$

$$\frac{-2}{2} + \frac{2}{-1}$$

$$\frac{-2}{2} + \frac{-2}{-2}$$

$$\frac{-2}{-2} + \frac{2}{-3}$$

$$\frac{-2}{2} + \frac{2}{-4}$$

5. Work out the fraction differences:

$$\frac{-1}{1} - \frac{1}{1}$$

$$\frac{1}{2} - \frac{-1}{2}$$

$$\frac{1}{-3} - \frac{1}{3}$$

$$\frac{1}{4} - \frac{1}{-4}$$

$$\frac{-2}{1} - \frac{1}{1}$$

$$\frac{-2}{2} - \frac{-1}{2}$$

$$\frac{-2}{-3} - \frac{1}{3}$$

$$\frac{-2}{4} - \frac{1}{-4}$$

$$\frac{-1}{1} - \frac{-2}{1}$$

$$\frac{1}{2} - \frac{-2}{2}$$

$$\frac{1}{-3} - \frac{-2}{3}$$

$$\frac{1}{4} - \frac{-2}{-4}$$

$$\frac{-2}{-1} - \frac{2}{1}$$

$$\frac{2}{-2} - \frac{-2}{2}$$

$$\frac{2}{-3} - \frac{2}{3}$$

$$\frac{2}{-4} - \frac{2}{-4}$$

$$\frac{-1}{1} - \frac{1}{-1}$$

$$\frac{1}{1} - \frac{-1}{-2}$$

$$\frac{1}{-1} - \frac{1}{-3}$$

$$\frac{1}{1} - \frac{1}{-4}$$

$$\frac{-2}{1} - \frac{-1}{1}$$

$$\frac{-2}{1} - \frac{-1}{2}$$

$$\frac{-2}{-1} - \frac{-1}{-3}$$

$$\frac{-2}{1} - \frac{-1}{-4}$$

$$\frac{-1}{-2} - \frac{2}{1}$$

$$\frac{-1}{-2} - \frac{-2}{2}$$

$$\frac{-1}{-2} - \frac{2}{3}$$

$$\frac{-1}{-2} - \frac{2}{-4}$$

$$\frac{-2}{2} + \frac{2}{-1}$$

$$\frac{-2}{2} + \frac{-2}{-2}$$

$$\frac{-2}{-2} + \frac{2}{-3}$$

$$\frac{-2}{2} + \frac{2}{-4}$$

Q8 Fill in the gaps:

a) $2 - \underline{\quad} = -2$

b) $1 - \underline{\quad} = 5$

c) $3 - \underline{\quad} + -2 = 6$

d) $-1 - \underline{\quad} = -3$

e) $6 - \underline{\quad} = -7$

f) $3 - \underline{\quad} - -3 = -2$

Q9 Work out the following calculations:

a) $-1 - -2 - (-3 - -4) = \underline{\quad}$

b) $-1 - (-1 - -2 - (-3 - -4)) = \underline{\quad}$

c) $-1 - -2 - (-3 - (-4 - -5)) = \underline{\quad}$

d) $-1 - (-2 - (-3 - (-4 - -5))) = \underline{\quad}$

e) $-1 - (-2 - (-3 - -4 - 5 - (6 - -7))) = \underline{\quad}$

f) $-10 - (-9 - (-8 - (-7 - (-6 - -5)))) \underline{\quad}$