

N3 Rational Numbers

Solutions Mini-quiz

(U1)

- 1) B
- 2) A
- 3) D
- 4) A

N3 constructed

- ① $-1.09, -0.16, -0.1, 0.1, 0.15, 2.4$
- ② $1.75, 0.9, 0.23, 0.\bar{2}, -0.01, -0.24.$
- ③ $1.6, 0.23, 0.05, -0.5, -0.\bar{5}, -1.4$
- ④ ~~1.2, 1.1~~ $2\frac{2}{9}, 1\frac{10}{11}, 1\frac{8}{9}, \frac{11}{12}, -\frac{5}{6}, -1\frac{3}{5}$
- ⑤ $1\frac{4}{9}, -\frac{7}{8}, -\frac{6}{7}, -1\frac{1}{11}, -2\frac{3}{8}$
- ⑥ $-2\frac{4}{6}, -\frac{2}{3}, -\frac{7}{8}, \frac{1}{3}, 1\frac{1}{6}, \frac{9}{7}.$
- ⑦ $1\frac{1}{4}, 0.8, \frac{6}{9}, -0.6, \frac{4}{-5}, -1.1.$
- ⑧ $-2.1, -2\frac{1}{6}, -\frac{3}{4}, 0.4, \frac{4}{9}, 1.\bar{1}$
- ⑨ $-1\frac{1}{2}, -1.46, \frac{1}{12}, 0.1, \frac{3}{10}, 0.\bar{3}$
- ⑩ $\frac{4}{6}, 0.62, \frac{3}{5}, \frac{-8}{9}, -0.89, -0.9.$

N4 BEDMAS
Solutions Mini-quiz

U1

- 1) A
- 2) B
- 3) C
- 4) C

Solutions Constructed Response

1) 55

2) 162

3) $23\frac{2}{3}$

4) $-4\frac{5}{6}$

5) $\frac{19}{30}$

N1 Exponents
Solutions Mini-quiz

U2

- 1) C
- 2) A
- 3) B
- 4) C

Solutions Constructed Response

- 1) 3
- 2) -4
- 3) 1
- 4) -1
- 5) 1
- 6) -7
- 7) -81
- 8) -64
- 9) 64
- 10) -625

11. a) $(-4)(-4) = 16$
b) $-(4)(4) = -16$
c) $-(-4)(-4) = -16$
d) $(-4^2) = -16$

12. a) 5^4
b) -3^4
c) $(-6)^4$
d) $-(-9)^4$

13. a) $(2x)^3$
b) $-(4a)^3$
c) $(-7y)^4$
d) $-(-12e)^3$

N2 Exponent Operations
Solutions Mini-quiz

U2

- 1) A
- 2) B
- 3) C
- 4) C

Solutions Constructed Response

- 1) 1
- 2) 2^7
- 3) 4^2
- 4) 5^5
- 5) 3^{12}
- 6) 21^3
- 7) $\frac{6^2}{7^2}$
- 8) 2^6
- 9) 7^{10}
- 10) 8^{17}
- 11) 6^2

PR6 +/- Polynomials
Solutions Mini-quiz

U3

- 1) A
- 2) A
- 3) C
- 4) D

Solutions Constructed Response

- 1) $5x + 6$
- 2) $2x - 2$
- 3) $-4a^2 - 2a - 17$
- 4) $-11c^2 - 2c + 14$
- 5) $-39x^2 + 6$

PR7 x/\div Polynomials

Solutions Mini-quiz

U3

- 1) A
- 2) A
- 3) C
- 4) C

Solutions Constructed Response

- 1) $-2x^6$
- 2) $4x^7$
- 3) -5
- 4) $3x^5 + 7$
- 5) $-3x^3 - 2x$
- 6) $\frac{-19z^2}{6} + 2x$
- 7) $2x^4 - 5$
- 8) $-8t^5 + 5t$
- 9) $-36r + 72$
- 10) $11z^8 + 4$

PR7 x/\div Polynomials

Solutions Mini-quiz

U3

1) D

2) D

3) A

4) B

Solutions Constructed Response

1) $-3x^2$

2) $24x^2$

3) $-42x$

4) $24x^2 - 56x$

5) $-35x^2 + 10x$

PR3 Equations
Solutions Mini-quiz

U4

- 1) C
- 2) B
- 3) C
- 4) B

Solutions Constructed Response

- 1) $x = 7$
- 2) $x = 7$
- 3) $b = -\frac{6}{7}$
- 4) $b = 2$
- 5) $f = -399$
- 6) $t = \frac{1}{14}$
- 7) $z = -1\frac{2}{3}$
- 8) $n = 6$
- 9) $j = -\frac{47}{9}$
- 10) $b = -10$