

◇ 次の逆数をいいなさい。

- | | | | | | |
|---------------------|-----------------|----------------------|-----------------|---------------------|----------------|
| (1) 3 | $\frac{1}{3}$ | (2) -7 | $-\frac{1}{7}$ | (3) 6 | $\frac{1}{6}$ |
| (4) -1 | -1 | (5) -9 | $-\frac{1}{9}$ | (6) 5 | $\frac{1}{5}$ |
| (7) $\frac{3}{5}$ | $\frac{5}{3}$ | (8) $\frac{5}{6}$ | $\frac{6}{5}$ | (9) $\frac{1}{3}$ | 3 |
| (10) $-\frac{3}{4}$ | $-\frac{4}{3}$ | (11) $-\frac{1}{5}$ | -5 | (12) $-\frac{5}{6}$ | $-\frac{6}{5}$ |
| (13) $-\frac{3}{7}$ | $-\frac{7}{3}$ | (14) $-\frac{2}{19}$ | $-\frac{19}{2}$ | (15) $2\frac{1}{6}$ | $\frac{6}{13}$ |
| (16) 0.1 | 10 | (17) 0.3 | $\frac{10}{3}$ | (18) 0.01 | 100 |
| (19) -0.9 | $-\frac{10}{9}$ | (20) -0.7 | $-\frac{10}{7}$ | (21) -0.4 | $-\frac{5}{2}$ |
| (22) -0.75 | $-\frac{4}{3}$ | (23) 0.125 | 8 | (24) -3.5 | $-\frac{2}{7}$ |

◇ 次の式を指数を用いて表しなさい。

- | | | | | | |
|--|------------------|--|---------------------------|--|----------------------------|
| (1) 2×2 | 2^2 | (2) 5×5 | 5^2 | (3) 7×7 | 7^2 |
| (4) $3 \times 3 \times 3$ | 3^3 | (5) $6 \times 6 \times 6$ | 6^3 | (6) $11 \times 11 \times 11$ | 11^3 |
| (7) $4 \times 4 \times 4$ | 4^3 | (8) $5 \times 5 \times 5 \times 5$ | 5^4 | (9) $8 \times 8 \times 8 \times 8 \times 8$ | 8^5 |
| (10) $3 \times 5 \times 5$ | 3×5^2 | (11) $2 \times 2 \times 2 \times 2 \times 2$ | 2^5 | (12) $4 \times 4 \times 7 \times 7$ | $4^2 \times 7^2$ |
| (13) $3 \times 3 \times 8 \times 8$ | $3^2 \times 8^2$ | (14) $2 \times 2 \times 3 \times 3$ | $2^2 \times 3^2$ | (15) $3 \times 3 \times 3 \times 11 \times 11$ | $3^3 \times 11^2$ |
| (16) $2 \times 6 \times 6 \times 2 \times 2$ | $2^3 \times 6^2$ | (17) $2 \times 5 \times 5 \times 7 \times 7$ | $2 \times 5^2 \times 7^2$ | (18) $3 \times 3 \times 7 \times 7 \times 10$ | $3^2 \times 7^2 \times 10$ |

◇ 次のかけ算の式を指数を用いて表しなさい。

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|---|----------------------------|--|----------------------|
| (1) $3 \times 7 \times 7 \times 7 \times 7$ | 3×7^4 | (2) $5 \times 10 \times 5 \times 10 \times 5$ | $5^3 \times 10^2$ |
| (3) $2 \times 6 \times 6 \times 11 \times 11 \times 11$ | $2 \times 6^2 \times 11^3$ | (4) $(-3) \times (-3) \times (-3) \times (-3)$ | $(-3)^3$ |
| (5) $6 \times 5 \times 6 \times 5 \times 5$ | $5^3 \times 6^2$ | (6) $7 \times 7 \times (-10) \times (-10)$ | $7^2 \times (-10)^2$ |
| (7) $(-5) \times (-5) \times (-5) \times (-5)$ | $(-5)^3$ | (8) $(-8) \times (-8) \times 3 \times 3$ | $3^2 \times (-8)^2$ |
| (9) $2 \times 2 \times 2 \times (-7) \times (-7)$ | $2^3 \times (-7)^2$ | (10) $(-3) \times 7 \times (-3) \times 7 \times (-3) \times 7$ | $(-3)^3 \times 7^3$ |

◇ 次の計算をしなさい。

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|--------------------------------|------|--------------------------------|---------|--------------------------------|-----|
| (1) 1^3 | 1 | (2) 3^2 | 9 | (3) 5^4 | 625 |
| (4) 3^3 | 27 | (5) 2^4 | 16 | (6) 6^2 | 36 |
| (7) $2^2 \times 7^2$ | 196 | (8) $2^2 \times 4^2$ | 64 | (9) $2^3 \times 5$ | 40 |
| (10) $1^5 \times 2^2$ | 4 | (11) $3^3 \times 7$ | 189 | (12) $2^4 \times 3$ | 48 |
| (13) $3^4 \times 5^2$ | 2025 | (14) $6^3 \times 10^4$ | 2160000 | (15) $2^2 \times 5^2$ | 100 |
| (16) $3^3 \times 5^2$ | 675 | (17) $7^2 \times 10^3$ | 49000 | (18) $2^3 \times 5^2$ | 200 |
| (19) $2^5 \times 3 \times 5^2$ | 2400 | (20) $2 \times 3^2 \times 5^3$ | 2250 | (21) $2^3 \times 3 \times 5^2$ | 600 |



◇ 次の計算をしなさい。

(1) $(-2) \times (-3) \times (-4) \times (-1)$

24

(2) $(-2) \times (+3) \times (+8) \times (-1)$

48

(3) $(-6) \times (+1) \times (-8) \times (+5)$

240

(4) $(-9) \times (-2) \times (-3) \times (-2)$

108

(5) $(-5) \times (-2) \times (+3) \times (-7)$

-210

(6) $4 \times (-8) \times 3 \times (-6)$

576

(7) $(-7) \times 4 \times 5 \times (-3)$

420

(8) $-3 \times (-2) \times (-7) \times 5$

-210

(9) $3 \times (-9) \times 2 \times (-4)$

216

(10) $6 \times (-2) \times 3 \times 4$

-144

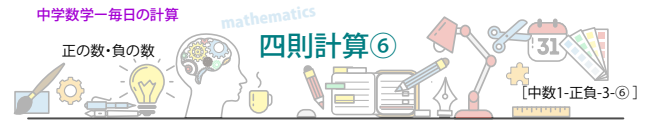
(11) $-2 \times 4 \times (-8) \times (-6)$

-384

(12) $5 \times (-3) \times (-7) \times 4$

420

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◇ 次の計算をしなさい。

(1) $(-2) \times (+3) \times (-5)$

30

(2) $6 \times (-3) \times 2$

-36

(3) $(-3) \times (-1) \times (-4)$

-12

(4) $(-5) \times (-3) \times (-4)$

-60

(5) $12 \times (-4) \times (-5)$

240

(6) $8 \times (-2) \times (-3)$

48

(7) $3 \times (-4) \times 2$

-24

(8) $(-4) \times (+5) \times (-3)$

60

(9) $(+1) \times (-4) \times (+6)$

-24

(10) $(-1) \times (-7) \times 5$

35

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◇ 次の計算をしなさい。

(1) $(-2) \times (+3) \times (-5)$

30

(2) $6 \times (-3) \times 2$

-36

(3) $(-3) \times (-1) \times (-4)$

-12

(4) $(-5) \times (-3) \times (-4)$

-60

(5) $12 \times (-4) \times (-5)$

240

(6) $8 \times (-2) \times (-3)$

48

(7) $3 \times (-4) \times 2$

-24

(8) $(-4) \times (+5) \times (-3)$

60

(9) $(+1) \times (-4) \times (+6)$

-24

(10) $(-1) \times (-7) \times 5$

35

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◇ 次の計算をしなさい。

(1) $(+2)^2$

4

(2) $(-1)^2$

1

(3) $(-1)^4$

1

(4) $(-4)^2$

16

(5) $(-5)^2$

25

(6) $(-6)^3$

-216

(7) $(-3)^2$

9

(8) $(-3)^3$

-27

(9) $(-3)^4$

81

(10) $(-7)^2$

49

(11) $(-8)^2$

64

(12) $(-\frac{3}{4})^2$

$\frac{9}{16}$

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◇ 次の計算をしなさい。

(1) -1^4

-1

(2) -2^3

-8

(3) -2^4

-16

(4) -4^2

-16

(5) -5^3

-125

(6) -6^2

-36

(7) -3^2

-9

(8) -3^3

-27

(9) -3^4

-81

(10) -10^3

-1000

(11) -14^2

-196

(12) $-(-2)^3$

8

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◇ 次の計算をしなさい。

(1) $(-\frac{6}{7}) \div (+\frac{3}{15}) \times (-\frac{1}{6})$

$\frac{1}{35}$

(2) $-\frac{5}{6} \div (-\frac{2}{3}) \times (-\frac{8}{15})$

$-\frac{2}{3}$

(3) $(-\frac{8}{5}) \times \frac{1}{4} \times (-\frac{3}{5})$

$\frac{6}{25}$

(4) $(-\frac{2}{3}) \div (-\frac{4}{9}) \times (-\frac{7}{8})$

$-\frac{21}{16}$

(5) $-\frac{3}{4} \times \frac{6}{7} \div \frac{9}{14}$

-1

(6) $(-\frac{8}{5}) \times 10 \div (-\frac{3}{5})$

12

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◇ 次の計算をしなさい。

(1) $18 \div (-3) \times (-3)$

18

(2) $(-42) \div 7 \times 8$

-48

(3) $(-12) \times (+8) \div (-4)$

24

(4) $(-36) \div (-4) \times (-3)$

-27

(5) $18 \div (-9) \times 5$

-10

(6) $(-18) \div (-9) \div (-2)$

-10

(7) $(-84) \div 4 \div (-7)$

3

(8) $(-5) \times 6 \div (-3) \times (-2)$

-20

(9) $(-6) \times (-25) \div (-5)$

-30

(10) $(+8) \div (-4) \times (-2) \div 6$

$\frac{2}{3}$

(11) $(+9) \div (-3) \times 0 \div (-4)$

0

(12) $(-27) \times (-9) \div (-81) \times (-1)$

3

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◇ 次の計算をしなさい。

(1) $(-18) \div \frac{2}{3} \times \frac{5}{6}$

$-\frac{45}{2}$

(2) $(-\frac{2}{3}) \div \frac{3}{5} \times (-\frac{4}{5})$

-2

(3) $\frac{3}{2} \times (-\frac{5}{15}) \div (-\frac{5}{36})$

$\frac{18}{5}$

(4) $(-\frac{5}{7}) \div (-\frac{10}{21}) \times (-4)$

-6

(5) $4 \div (-\frac{2}{7}) \div (-\frac{7}{8})$

16

(6) $(-\frac{2}{3}) \div \frac{1}{6} \times (-\frac{3}{4}) \div 6$

$\frac{6}{25}$

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◇ 次の計算をしなさい。

(1) $3 \times (-4) + 12$
0

(2) $9 \div 3 - 6$
-3

(3) $5 \times (-2) - (-9)$
-1

(4) $8 + 9 \times (-3)$
-19

(5) $9 + 18 \div (-3)$
3

(6) $13 - (-5) \times 4$
33

(7) $-6 + 12 \div (-3)$
-10

(8) $11 - (-2) \times 9$
29

(9) $7 - 24 \div (-4)$
13

(10) $2 \times (-3) + 11$
5

(11) $-8 \div 4 - 4$
-6

(12) $4 \times (-2) - (-10)$
2

(13) $-4 + (-2) \times 7$
-18

(14) $3 - 8 \div 4$
1



◇ 次の計算をしなさい。

(1) $10 - (-6) \times 4$
34

(2) $-7 + 12 \div (-4)$
-10

(3) $9 - (-4) \times 3$
21

(4) $5 - 20 \div (-5)$
9

(5) $4 \times (-3) - 5 \times (-7)$
23

(6) $14 \div (-2) + (-2) \times 9$
-25

(7) $-6 \times (-7) + 40 \div (-8)$
37

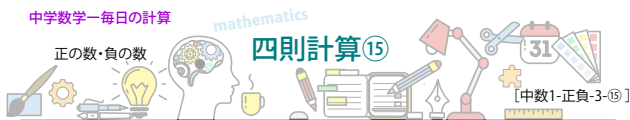
(8) $9 \times (-2) - 20 \div (-4)$
-13

(9) $2 \times (-7) - 4 \times (-4)$
2

(10) $18 \div (-3) + (-5) \times 7$
-41

(11) $-8 \times (-6) + 42 \div (-6)$
41

(12) $4 \times (-9) - 30 \div (-5)$
-30



◇ 次の計算をしなさい。

(1) $(9-5) \times (-3)$
-12

(2) $(-2) \times (-7-5)$
24

(3) $(-9+4) \times (-5)$
25

(4) $(4-6) \times (-2)$
4

(5) $(-3) \times (-8-3)$
33

(6) $(-7+2) \times (-4)$
20

(7) $(15-27) \div (-6)$
2

(8) $(-45) \div (-5+8)$
-15

(9) $(18+12) \div (-15)$
-2

(10) $(-2-7) \times 3-4$
-31

(11) $11+5 \times (2-6)$
-9

(12) $2-3 \times (4-7)$
11



◇ 次の計算をしなさい。

(1) $10 - (7-15) \times 3$
34

(2) $\{8 - (9-12)\} \times 4$
44

(3) $-7 + (5-17) \div 4$
-10

(4) $13 - (8-7 \times 5) \div 3$
22

(5) $5 + 2 \times (4-6)$
1

(6) $8 - 3 \times (2-5)$
17

(7) $(10 \div 2 - 8) \div (-3) - 6$
-5

(8) $14 - (8-6 \times 3) \div 5$
16





◇ 次の計算を下さい。

(1) $(-2) \times (-3^2)$

18

(2) $2 \times (-3)^3$

-54

(3) $(-5^2) \times (-3)$

75

(4) $-6^2 \times (-5)^2$

-900

(5) $(-1)^3 \times (-3)^2$

-9

(6) $-2^3 \times (-4)^2$

-128

(7) $(-7)^2 \times (-3)^2$

441

(8) $(-2^3) \times (-3)^2$

-72

(9) $(-5)^2 \div (-1)^3$

-25

(10) $(-3)^3 \div (-3)^2$

3

(11) $(-4)^3 \div (-2^3)$

8

(12) $-5^3 \div (-10)^2$

-1.25
 $(-\frac{5}{4})$

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◇ 次の計算を下さい。

(1) $(-2)^3 \div 4 \times (-4)$

8

(2) $-4^3 \times (-7) \div (-2)^3$

-56

(3) $3^2 \times 2 \div (-3)$

-6

(4) $(-6)^2 \div (-4^2) \times 3$

$-\frac{27}{4}$

(5) $32 \div 2^2 \times (-9)$

-72

(6) $-6 \times (-2)^3 \div 3$

16

(7) $(-5)^2 \times (-2) \div 10$

-5

(8) $60 \div 3 \div (-2^2)$

-5

(9) $(+2)^3 \times (-4) \div (-8)$

4

(10) $(-2)^4 \times (-3^3) \div (-6^2)$

12

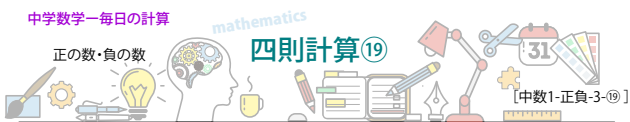
(11) $(-6^2) \div (-4^2) \times (-2)$

$-\frac{9}{2}$

(12) $(-3)^3 \div (-6) \times (-4)$

-18

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◇ 次の計算を下さい。

(1) $(-2)^2 - 8$

-4

(2) $5 - (-4)^2$

-11

(3) $5 - 3^2$

-4

(4) $2^2 - 11$

-7

(5) $8 - (-6)^2$

-28

(6) $7 - 4^2$

-9

(7) $(-6)^2 - 9$

27

(8) $11 + (-2)^3$

3

(9) $-2^2 - (-3)^2$

-13

(10) $(-5)^2 - 9$

16

(11) $15 + (-2)^3$

7

(12) $(-2^3) - 7$

-15

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◇ 次の計算を下さい。

(1) $(-8)^2 - 7 \times 3$

43

(2) $8 \times 8 - (-9)^2$

-17

(3) $5 + (-3)^2 \times 5$

50

(4) $-5 \times 3 + (-3)^2$

-6

(5) $(-3)^2 - 4 \times (-3)$

21

(6) $(-7)^2 + 20 \div (-4)$

44

(7) $-15 - 9^2 \div 3$

-42

(8) $(-2)^2 \times 3 - 24 \div 8$

9

(9) $-6^2 - 28 \div (7 - 11)$

-29

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