

すきプリ 中学数学

正負の数 四則計算と分配法則

もくじ

四則計算

累乗を含む四則計算

分配法則

問題

計算しましょう。

①

$$\frac{19}{2} \div \frac{19}{6}$$

②

$$\left(-\frac{5}{6}\right) - \left(+\frac{1}{6}\right)$$

③

$$\left(+\frac{13}{7}\right) \div \left(-\frac{1}{7}\right) \times \left(-\frac{18}{13}\right)$$

④

$$\left(-\frac{10}{3}\right) \times \left(+\frac{9}{2}\right)$$

⑤

$$\frac{3}{4} \div \left(+\frac{1}{16}\right)$$

⑥

$$\left(+\frac{3}{4}\right) \div \left(+\frac{3}{16}\right)$$

1

$$\begin{aligned} & \frac{19}{2} \div \frac{19}{6} \\ &= \frac{19}{2} \times \frac{6}{19} \\ &= 3 \end{aligned}$$

2

$$\begin{aligned} & \left(-\frac{5}{6}\right) - \left(+\frac{1}{6}\right) \\ &= \left(-\frac{5}{6}\right) - \frac{1}{6} \\ &= -1 \end{aligned}$$

3

$$\begin{aligned} & \left(+\frac{13}{7}\right) \div \left(-\frac{1}{7}\right) \times \left(-\frac{18}{13}\right) \\ &= \frac{13}{7} \times (-7) \times \left(-\frac{18}{13}\right) \\ &= 18 \end{aligned}$$

4

$$\left(-\frac{10}{3}\right) \times \left(+\frac{9}{2}\right) = -15$$

5

$$\begin{aligned} & \frac{3}{4} \div \left(+\frac{1}{16}\right) \\ &= \frac{3}{4} \times 16 \\ &= 12 \end{aligned}$$

6

$$\begin{aligned} & \left(+\frac{3}{4}\right) \div \left(+\frac{3}{16}\right) \\ &= \frac{3}{4} \times \frac{16}{3} \\ &= 4 \end{aligned}$$

7

$$\left(+\frac{15}{4}\right) \times \left(+\frac{16}{15}\right)$$

8

$$(-18) \div \frac{6}{11}$$

9

$$-12 \times \left(+\frac{1}{6}\right) \div \left(-\frac{1}{15}\right)$$

10

$$\left(+\frac{15}{19}\right) \times \left(+\frac{16}{3}\right) \times (+19)$$

11

$$\frac{7}{4} \times \left(+\frac{20}{7}\right)$$

12

$$7 + (-2)$$

7

$$\left(+\frac{15}{4}\right) \times \left(+\frac{16}{15}\right) = 4$$

8

$$\begin{aligned} & (-18) \div \frac{6}{11} \\ &= -18 \times \frac{11}{6} \\ &= -33 \end{aligned}$$

9

$$\begin{aligned} & -12 \times \left(+\frac{1}{6}\right) \div \left(-\frac{1}{15}\right) \\ &= -12 \times \frac{1}{6} \times (-15) \\ &= 30 \end{aligned}$$

10

$$\left(+\frac{15}{19}\right) \times \left(+\frac{16}{3}\right) \times (+19) = 80$$

11

$$\frac{7}{4} \times \left(+\frac{20}{7}\right) = 5$$

12

$$7 + (-2) = 5$$

13

$$-18 \times \left(+\frac{7}{3}\right) \div \left(-\frac{2}{15}\right)$$

14

$$(-8) \times \left(+\frac{1}{4}\right)$$

15

$$-\frac{17}{8} - \left(-\frac{1}{8}\right)$$

16

$$\left(+\frac{13}{10}\right) - \left(-\frac{17}{10}\right)$$

17

$$(+11) \times \frac{19}{11}$$

18

$$\frac{19}{13} \times \left(-\frac{11}{19}\right) \div \frac{1}{13}$$

13

$$\begin{aligned}
 & -18 \times \left(+\frac{7}{3}\right) \div \left(-\frac{2}{15}\right) \\
 & = -18 \times \frac{7}{3} \times \left(-\frac{15}{2}\right) \\
 & = 315
 \end{aligned}$$

14

$$(-8) \times \left(+\frac{1}{4}\right) = -2$$

15

$$\begin{aligned}
 & -\frac{17}{8} - \left(-\frac{1}{8}\right) \\
 & = -\frac{17}{8} + \frac{1}{8} \\
 & = -2
 \end{aligned}$$

16

$$\begin{aligned}
 & \left(+\frac{13}{10}\right) - \left(-\frac{17}{10}\right) \\
 & = \left(+\frac{13}{10}\right) + \frac{17}{10} \\
 & = 3
 \end{aligned}$$

17

$$(+11) \times \frac{19}{11} = 19$$

18

$$\begin{aligned}
 & \frac{19}{13} \times \left(-\frac{11}{19}\right) \div \frac{1}{13} \\
 & = \frac{19}{13} \times \left(-\frac{11}{19}\right) \times 13 \\
 & = -11
 \end{aligned}$$

19

$$\left(+\frac{17}{7}\right) - \frac{15}{2} - \left(-\frac{15}{14}\right)$$

20

$$-\frac{7}{15} \div \left(-\frac{7}{15}\right)$$

21

$$\frac{8}{15} \div \left(+\frac{1}{15}\right) + 15$$

22

$$-\frac{6}{5} \times \left(+\frac{11}{3}\right) \div \frac{11}{10}$$

23

$$\left(+\frac{19}{3}\right) \div \frac{1}{3}$$

24

$$\left(+\frac{4}{17}\right) \div \left(+\frac{4}{17}\right)$$

19

$$\begin{aligned} & \left(+\frac{17}{7}\right) - \frac{15}{2} - \left(-\frac{15}{14}\right) \\ &= \left(+\frac{17}{7}\right) - \frac{15}{2} + \frac{15}{14} \\ &= -4 \end{aligned}$$

20

$$-\frac{7}{15} \div \left(-\frac{7}{15}\right) = 1$$

21

$$\begin{aligned} & \frac{8}{15} \div \left(+\frac{1}{15}\right) + 15 \\ &= \frac{8}{15} \times 15 + 15 \\ &= 8 + 15 \\ &= 23 \end{aligned}$$

22

$$\begin{aligned} & -\frac{6}{5} \times \left(+\frac{11}{3}\right) \div \frac{11}{10} \\ &= -\frac{6}{5} \times \frac{11}{3} \times \frac{10}{11} \\ &= -4 \end{aligned}$$

23

$$\begin{aligned} & \left(+\frac{19}{3}\right) \div \frac{1}{3} \\ &= \frac{19}{3} \times 3 \\ &= 19 \end{aligned}$$

24

$$\left(+\frac{4}{17}\right) \div \left(+\frac{4}{17}\right) = 1$$

25

$$\left(-\frac{9}{2}\right) - \left(+\frac{7}{2}\right)$$

26

$$(+1) \div \frac{1}{17} \div \left(-\frac{17}{14}\right)$$

27

$$\frac{8}{3} + \left(+\frac{7}{3}\right)$$

28

$$\frac{3}{4} \times 4$$

29

$$15 + 17 + (+6)$$

30

$$\frac{16}{3} \times \left(+\frac{18}{5}\right) \times \left(-\frac{5}{12}\right)$$

25

$$\begin{aligned} & \left(-\frac{9}{2}\right) - \left(+\frac{7}{2}\right) \\ &= \left(-\frac{9}{2}\right) - \frac{7}{2} \\ &= -8 \end{aligned}$$

26

$$\begin{aligned} & (+1) \div \frac{1}{17} \div \left(-\frac{17}{14}\right) \\ &= 1 \times 17 \times \left(-\frac{14}{17}\right) \\ &= -14 \end{aligned}$$

27

$$\frac{8}{3} + \left(+\frac{7}{3}\right) = 5$$

28

$$\frac{3}{4} \times 4 = 3$$

29

$$15 + 17 + (+6) = 38$$

30

$$\frac{16}{3} \times \left(+\frac{18}{5}\right) \times \left(-\frac{5}{12}\right) = -8$$

①

$$\left(+\frac{10}{3}\right) + \left(-\frac{16}{9}\right) - \frac{14}{9}$$

②

$$\left(-\frac{11}{3}\right) \times 3$$

③

$$\left(-\frac{8}{5}\right) \div \frac{8}{5}$$

④

$$(-17) + 9$$

⑤

$$-\frac{19}{4} \times (-10) + \left(-\frac{5}{2}\right)$$

⑥

$$\left(+\frac{11}{7}\right) \times 7$$

1

$$\left(+\frac{10}{3}\right) + \left(-\frac{16}{9}\right) - \frac{14}{9} = 0$$

2

$$\left(-\frac{11}{3}\right) \times 3 = -11$$

3

$$\left(-\frac{8}{5}\right) \div \frac{8}{5} = -1$$

4

$$(-17) + 9 = -8$$

5

$$\begin{aligned} & -\frac{19}{4} \times (-10) + \left(-\frac{5}{2}\right) \\ &= \frac{95}{2} + \left(-\frac{5}{2}\right) \\ &= 45 \end{aligned}$$

6

$$\left(+\frac{11}{7}\right) \times 7 = 11$$

7

$$\frac{15}{7} \times (+7)$$

8

$$(+4) \times \frac{3}{4}$$

9

$$\frac{13}{9} \times \left(+\frac{9}{13}\right)$$

10

$$(+16) \div \left(+\frac{2}{5}\right)$$

11

$$(+2) + (+15)$$

12

$$(-12) + 6$$

7

$$\frac{15}{7} \times (+7) = 15$$

8

$$(+4) \times \frac{3}{4} = 3$$

9

$$\frac{13}{9} \times \left(+\frac{9}{13}\right) = 1$$

10

$$\begin{aligned} & (+16) \div \left(+\frac{2}{5}\right) \\ &= 16 \times \frac{5}{2} \\ &= 40 \end{aligned}$$

11

$$(+2) + (+15) = 17$$

12

$$(-12) + 6 = -6$$

13

$$\left(-\frac{11}{4}\right) - \left(+\frac{17}{4}\right)$$

14

$$-\frac{11}{7} - \left(-\frac{18}{7}\right)$$

15

$$-6 \times \left(+\frac{14}{19}\right) \times \left(+\frac{19}{6}\right)$$

16

$$8 \times \frac{7}{2}$$

17

$$\left(-\frac{15}{11}\right) - \frac{12}{11} \div \left(-\frac{6}{13}\right)$$

18

$$(+8) - \frac{1}{2} - \left(+\frac{13}{2}\right)$$

13

$$\begin{aligned} & \left(-\frac{11}{4}\right) - \left(+\frac{17}{4}\right) \\ &= \left(-\frac{11}{4}\right) - \frac{17}{4} \\ &= -7 \end{aligned}$$

14

$$\begin{aligned} & -\frac{11}{7} - \left(-\frac{18}{7}\right) \\ &= -\frac{11}{7} + \frac{18}{7} \\ &= 1 \end{aligned}$$

15

$$-6 \times \left(+\frac{14}{19}\right) \times \left(+\frac{19}{6}\right) = -14$$

16

$$8 \times \frac{7}{2} = 28$$

17

$$\begin{aligned} & \left(-\frac{15}{11}\right) - \frac{12}{11} \div \left(-\frac{6}{13}\right) \\ &= \left(-\frac{15}{11}\right) - \frac{12}{11} \times \left(-\frac{13}{6}\right) \\ &= \left(-\frac{15}{11}\right) + \frac{26}{11} \\ &= 1 \end{aligned}$$

18

$$\begin{aligned} & (+8) - \frac{1}{2} - \left(+\frac{13}{2}\right) \\ &= (+8) - \frac{1}{2} - \frac{13}{2} \\ &= 1 \end{aligned}$$

19

$$\left(-\frac{1}{3}\right) \times 3$$

20

$$\left(+\frac{9}{19}\right) \times \left(+\frac{19}{3}\right)$$

21

$$\left(+\frac{5}{4}\right) + \frac{7}{4}$$

22

$$\frac{15}{2} \times (-12) \div \frac{6}{13}$$

23

$$-3 + \left(+\frac{1}{6}\right) \times (-18)$$

24

$$5 \div \frac{1}{16}$$

19

$$\left(-\frac{1}{3}\right) \times 3 = -1$$

20

$$\left(+\frac{9}{19}\right) \times \left(+\frac{19}{3}\right) = 3$$

21

$$\left(+\frac{5}{4}\right) + \frac{7}{4} = 3$$

22

$$\begin{aligned} & \frac{15}{2} \times (-12) \div \frac{6}{13} \\ &= \frac{15}{2} \times (-12) \times \frac{13}{6} \\ &= -195 \end{aligned}$$

23

$$\begin{aligned} & -3 + \left(+\frac{1}{6}\right) \times (-18) \\ &= -3 + (-3) \\ &= -6 \end{aligned}$$

24

$$\begin{aligned} & 5 \div \frac{1}{16} \\ &= 5 \times 16 \\ &= 80 \end{aligned}$$

25

$$\left(+\frac{19}{5}\right) \times \left(-\frac{5}{19}\right) - 3$$

26

$$\left(-\frac{17}{14}\right) + \frac{17}{14}$$

27

$$\frac{11}{2} - \frac{7}{2}$$

28

$$\left(-\frac{9}{5}\right) + \frac{19}{5}$$

29

$$\frac{4}{5} - \left(+\frac{11}{2}\right) + \left(-\frac{3}{10}\right)$$

30

$$10 + 17$$

25

$$\begin{aligned} & \left(+\frac{19}{5}\right) \times \left(-\frac{5}{19}\right) - 3 \\ &= -1 - 3 \\ &= -4 \end{aligned}$$

26

$$\left(-\frac{17}{14}\right) + \frac{17}{14} = 0$$

27

$$\frac{11}{2} - \frac{7}{2} = 2$$

28

$$\left(-\frac{9}{5}\right) + \frac{19}{5} = 2$$

29

$$\begin{aligned} & \frac{4}{5} - \left(+\frac{11}{2}\right) + \left(-\frac{3}{10}\right) \\ &= \frac{4}{5} - \frac{11}{2} + \left(-\frac{3}{10}\right) \\ &= -5 \end{aligned}$$

30

$$10 + 17 = 27$$

①

$$(+20) \times \frac{17}{20}$$

②

$$\left(+\frac{19}{8}\right) - \left(-\frac{13}{8}\right)$$

③

$$-\frac{7}{5} \times 5$$

④

$$\frac{13}{10} - \left(-\frac{13}{8}\right) \times \left(-\frac{4}{5}\right)$$

⑤

$$\left(+\frac{15}{2}\right) \times \left(+\frac{18}{7}\right) \div \frac{15}{7}$$

⑥

$$(+4) - (-19) \times 13$$

1

$$(+20) \times \frac{17}{20} = 17$$

2

$$\begin{aligned} & \left(+\frac{19}{8}\right) - \left(-\frac{13}{8}\right) \\ &= \left(+\frac{19}{8}\right) + \frac{13}{8} \\ &= 4 \end{aligned}$$

3

$$-\frac{7}{5} \times 5 = -7$$

4

$$\begin{aligned} & \frac{13}{10} - \left(-\frac{13}{8}\right) \times \left(-\frac{4}{5}\right) \\ &= \frac{13}{10} - \frac{13}{10} \\ &= 0 \end{aligned}$$

5

$$\begin{aligned} & \left(+\frac{15}{2}\right) \times \left(+\frac{18}{7}\right) \div \frac{15}{7} \\ &= \frac{15}{2} \times \frac{18}{7} \times \frac{7}{15} \\ &= 9 \end{aligned}$$

6

$$\begin{aligned} & (+4) - (-19) \times 13 \\ &= (+4) + 247 \\ &= 251 \end{aligned}$$

7

$$\frac{17}{5} \times \left(-\frac{10}{17}\right)$$

8

$$\left(-\frac{13}{16}\right) \div \left(+\frac{1}{16}\right)$$

9

$$(-19) - (-4)$$

10

$$\frac{7}{2} \div \left(-\frac{7}{10}\right)$$

11

$$\left(-\frac{18}{5}\right) \times \frac{20}{3}$$

12

$$(-10) - 8$$

7

$$\frac{17}{5} \times \left(-\frac{10}{17}\right) = -2$$

8

$$\begin{aligned} & \left(-\frac{13}{16}\right) \div \left(+\frac{1}{16}\right) \\ &= -\frac{13}{16} \times 16 \\ &= -13 \end{aligned}$$

9

$$\begin{aligned} & (-19) - (-4) \\ &= (-19) + 4 \\ &= -15 \end{aligned}$$

10

$$\begin{aligned} & \frac{7}{2} \div \left(-\frac{7}{10}\right) \\ &= \frac{7}{2} \times \left(-\frac{10}{7}\right) \\ &= -5 \end{aligned}$$

11

$$\left(-\frac{18}{5}\right) \times \frac{20}{3} = -24$$

12

$$(-10) - 8 = -18$$

13

$$\left(-\frac{5}{3}\right) - \left(-\frac{5}{3}\right)$$

14

$$\left(+\frac{10}{7}\right) \div \left(+\frac{10}{7}\right)$$

15

$$-\frac{1}{3} - \left(-\frac{19}{3}\right)$$

16

$$(-20) \div \frac{7}{11} + \left(+\frac{17}{7}\right)$$

17

$$(-20) - 12$$

18

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

13

$$\begin{aligned} & \left(-\frac{5}{3}\right) - \left(-\frac{5}{3}\right) \\ &= \left(-\frac{5}{3}\right) + \frac{5}{3} \\ &= 0 \end{aligned}$$

14

$$\left(+\frac{10}{7}\right) \div \left(+\frac{10}{7}\right) = 1$$

15

$$\begin{aligned} & -\frac{1}{3} - \left(-\frac{19}{3}\right) \\ &= -\frac{1}{3} + \frac{19}{3} \\ &= 6 \end{aligned}$$

16

$$\begin{aligned} & (-20) \div \frac{7}{11} + \left(+\frac{17}{7}\right) \\ &= -20 \times \frac{11}{7} + \left(+\frac{17}{7}\right) \\ &= -\frac{220}{7} + \left(+\frac{17}{7}\right) \\ &= -29 \end{aligned}$$

17

$$(-20) - 12 = -32$$

18

$$-7 \times (-2) = 14$$

19

$$-\frac{1}{14} + \left(+\frac{15}{14}\right)$$

20

$$-18 \div \frac{3}{17}$$

21

$$6 - (-6)$$

22

$$\left(-\frac{11}{4}\right) \times \left(+\frac{16}{11}\right)$$

23

$$\frac{12}{7} \times (+14) \div \frac{4}{3}$$

24

$$\left(+\frac{15}{8}\right) - \left(+\frac{15}{8}\right)$$

19

$$-\frac{1}{14} + \left(+\frac{15}{14}\right) = 1$$

20

$$\begin{aligned} & -18 \div \frac{3}{17} \\ & = -18 \times \frac{17}{3} \\ & = -102 \end{aligned}$$

21

$$\begin{aligned} & 6 - (-6) \\ & = 6 + 6 \\ & = 12 \end{aligned}$$

22

$$\left(-\frac{11}{4}\right) \times \left(+\frac{16}{11}\right) = -4$$

23

$$\begin{aligned} & \frac{12}{7} \times (+14) \div \frac{4}{3} \\ & = \frac{12}{7} \times 14 \times \frac{3}{4} \\ & = 18 \end{aligned}$$

24

$$\begin{aligned} & \left(+\frac{15}{8}\right) - \left(+\frac{15}{8}\right) \\ & = \left(+\frac{15}{8}\right) - \frac{15}{8} \\ & = 0 \end{aligned}$$

25

$$\left(-\frac{20}{3}\right) \times \left(-\frac{3}{4}\right)$$

26

$$-4 \div \frac{2}{5}$$

27

$$-8 + \left(+\frac{8}{19}\right) \times \left(-\frac{19}{8}\right)$$

28

$$-2 - 1$$

29

$$\frac{7}{2} \div \frac{1}{20}$$

30

$$\left(-\frac{17}{5}\right) \div \left(-\frac{17}{5}\right)$$

25

$$\left(-\frac{20}{3}\right) \times \left(-\frac{3}{4}\right) = 5$$

26

$$\begin{aligned} & -4 \div \frac{2}{5} \\ & = -4 \times \frac{5}{2} \\ & = -10 \end{aligned}$$

27

$$\begin{aligned} & -8 + \left(+\frac{8}{19}\right) \times \left(-\frac{19}{8}\right) \\ & = -8 + (-1) \\ & = -9 \end{aligned}$$

28

$$-2 - 1 = -3$$

29

$$\begin{aligned} & \frac{7}{2} \div \frac{1}{20} \\ & = \frac{7}{2} \times 20 \\ & = 70 \end{aligned}$$

30

$$\left(-\frac{17}{5}\right) \div \left(-\frac{17}{5}\right) = 1$$

問題

計算しましょう。

①

$$7^2 + 12 \times (-1)$$

②

$$-\frac{3}{2} \times 10^2 - (-12)$$

③

$$(-2^5) \times \frac{15}{4} \times \frac{13}{15}$$

④

$$-\frac{4}{3} \times 18 - 2^6$$

⑤

$$\frac{14}{19} \div \left(+\frac{1}{19}\right) + (-2^2)$$

⑥

$$-6^2 - (-16) - (+10)$$

1

$$\begin{aligned}
 & 7^2 + 12 \times (-1) \\
 & = 49 + 12 \times (-1) \\
 & = 49 + (-12) \\
 & = 37
 \end{aligned}$$

2

$$\begin{aligned}
 & -\frac{3}{2} \times 10^2 - (-12) \\
 & = -\frac{3}{2} \times 100 - (-12) \\
 & = -150 - (-12) \\
 & = -150 + 12 \\
 & = -138
 \end{aligned}$$

3

$$\begin{aligned}
 & (-2^5) \times \frac{15}{4} \times \frac{13}{15} \\
 & = -32 \times \frac{15}{4} \times \frac{13}{15} \\
 & = -104
 \end{aligned}$$

4

$$\begin{aligned}
 & -\frac{4}{3} \times 18 - 2^6 \\
 & = -\frac{4}{3} \times 18 - 64 \\
 & = -24 - 64 \\
 & = -88
 \end{aligned}$$

5

$$\begin{aligned}
 & \frac{14}{19} \div \left(+\frac{1}{19} \right) + (-2^2) \\
 & = \frac{14}{19} \div \left(+\frac{1}{19} \right) + (-4) \\
 & = \frac{14}{19} \times 19 + (-4) \\
 & = 14 + (-4) \\
 & = 10
 \end{aligned}$$

6

$$\begin{aligned}
 & -6^2 - (-16) - (+10) \\
 & = -36 - (-16) - (+10) \\
 & = -36 + 16 - (+10) \\
 & = -36 + 16 - 10 \\
 & = -30
 \end{aligned}$$

7

$$(-3)^2 - \left(+\frac{16}{3}\right) \times \frac{9}{4}$$

8

$$(-3^3) + \frac{1}{2} \div \frac{1}{16}$$

9

$$\left(-\frac{3}{5}\right) \div \left(-\frac{10}{19}\right) + \left(\frac{3}{5}\right)^2$$

10

$$-\frac{16}{7} \times \left(-\frac{7}{8}\right) \times (-8^2)$$

11

$$(-8)^2 + 5 + 3^2$$

12

$$\frac{13}{16} \times 8^2 \times \left(+\frac{9}{4}\right)$$

7

$$\begin{aligned}
 & (-3)^2 - \left(+\frac{16}{3}\right) \times \frac{9}{4} \\
 &= 9 - \left(+\frac{16}{3}\right) \times \frac{9}{4} \\
 &= 9 - 12 \\
 &= -3
 \end{aligned}$$

8

$$\begin{aligned}
 & (-3^3) + \frac{1}{2} \div \frac{1}{16} \\
 &= -27 + \frac{1}{2} \div \frac{1}{16} \\
 &= -27 + \frac{1}{2} \times 16 \\
 &= -27 + 8 \\
 &= -19
 \end{aligned}$$

9

$$\begin{aligned}
 & \left(-\frac{3}{5}\right) \div \left(-\frac{10}{19}\right) + \left(\frac{3}{5}\right)^2 \\
 &= \left(-\frac{3}{5}\right) \div \left(-\frac{10}{19}\right) + \frac{9}{25} \\
 &= -\frac{3}{5} \times \left(-\frac{19}{10}\right) + \frac{9}{25} \\
 &= \frac{57}{50} + \frac{9}{25} \\
 &= \frac{3}{2}
 \end{aligned}$$

10

$$\begin{aligned}
 & -\frac{16}{7} \times \left(-\frac{7}{8}\right) \times (-8^2) \\
 &= -\frac{16}{7} \times \left(-\frac{7}{8}\right) \times (-64) \\
 &= -128
 \end{aligned}$$

11

$$\begin{aligned}
 & (-8)^2 + 5 + 3^2 \\
 &= 64 + 5 + 3^2 \\
 &= 64 + 5 + 9 \\
 &= 78
 \end{aligned}$$

12

$$\begin{aligned}
 & \frac{13}{16} \times 8^2 \times \left(+\frac{9}{4}\right) \\
 &= \frac{13}{16} \times 64 \times \left(+\frac{9}{4}\right) \\
 &= 117
 \end{aligned}$$

13

$$(+15) \div \frac{1}{6} - (-2^2)$$

14

$$-6 + (+7) - 3^3$$

15

$$(-9) \times (-20) + (-3)^2$$

16

$$-3 + (-2^5) \div \left(+\frac{8}{13}\right)$$

17

$$2^4 \div \left(+\frac{8}{3}\right) + 13$$

18

$$\left(-\frac{9}{8}\right) \div \left(+\frac{9}{20}\right) \times (-6^2)$$

13

$$\begin{aligned}
 & (+15) \div \frac{1}{6} - (-2^2) \\
 = & (+15) \div \frac{1}{6} - (-4) \\
 = & 15 \times 6 - (-4) \\
 = & 90 - (-4) \\
 = & 90 + 4 \\
 = & 94
 \end{aligned}$$

14

$$\begin{aligned}
 & -6 + (+7) - 3^3 \\
 = & -6 + (+7) - 27 \\
 = & -26
 \end{aligned}$$

15

$$\begin{aligned}
 & (-9) \times (-20) + (-3)^2 \\
 = & (-9) \times (-20) + 9 \\
 = & 180 + 9 \\
 = & 189
 \end{aligned}$$

16

$$\begin{aligned}
 & -3 + (-2^5) \div \left(+\frac{8}{13}\right) \\
 = & -3 + (-32) \div \left(+\frac{8}{13}\right) \\
 = & -3 + (-32) \times \frac{13}{8} \\
 = & -3 + (-52) \\
 = & -55
 \end{aligned}$$

17

$$\begin{aligned}
 & 2^4 \div \left(+\frac{8}{3}\right) + 13 \\
 = & 16 \div \left(+\frac{8}{3}\right) + 13 \\
 = & 16 \times \frac{3}{8} + 13 \\
 = & 6 + 13 \\
 = & 19
 \end{aligned}$$

18

$$\begin{aligned}
 & \left(-\frac{9}{8}\right) \div \left(+\frac{9}{20}\right) \times (-6^2) \\
 = & \left(-\frac{9}{8}\right) \div \left(+\frac{9}{20}\right) \times (-36) \\
 = & -\frac{9}{8} \times \frac{20}{9} \times (-36) \\
 = & 90
 \end{aligned}$$

19

$$\frac{13}{4} - \left(-\frac{1}{2}\right)^2 + 3^3$$

20

$$\frac{7}{3} + \left(-\frac{7}{4}\right) - \left(\frac{1}{2}\right)^2$$

21

$$(-3^3) - \left(+\frac{15}{16}\right) \times 4^2$$

22

$$\left(+\frac{17}{3}\right) + (-2^3) + \left(+\frac{13}{6}\right)$$

23

$$-2^3 \times \left(+\frac{1}{15}\right) + \frac{8}{15}$$

24

$$\left(-\frac{5}{4}\right)^2 - \frac{3}{5} + \left(-\frac{17}{16}\right)$$

19

$$\begin{aligned}
 & \frac{13}{4} - \left(-\frac{1}{2}\right)^2 + 3^3 \\
 &= \frac{13}{4} - \frac{1}{4} + 3^3 \\
 &= \frac{13}{4} - \frac{1}{4} + 27 \\
 &= 30
 \end{aligned}$$

20

$$\begin{aligned}
 & \frac{7}{3} + \left(-\frac{7}{4}\right) - \left(\frac{1}{2}\right)^2 \\
 &= \frac{7}{3} + \left(-\frac{7}{4}\right) - \frac{1}{4} \\
 &= \frac{1}{3}
 \end{aligned}$$

21

$$\begin{aligned}
 & (-3^3) - \left(+\frac{15}{16}\right) \times 4^2 \\
 &= -27 - \left(+\frac{15}{16}\right) \times 4^2 \\
 &= -27 - \left(+\frac{15}{16}\right) \times 16 \\
 &= -27 - 15 \\
 &= -42
 \end{aligned}$$

22

$$\begin{aligned}
 & \left(+\frac{17}{3}\right) + (-2^3) + \left(+\frac{13}{6}\right) \\
 &= \left(+\frac{17}{3}\right) + (-8) + \left(+\frac{13}{6}\right) \\
 &= -\frac{1}{6}
 \end{aligned}$$

23

$$\begin{aligned}
 & -2^3 \times \left(+\frac{1}{15}\right) + \frac{8}{15} \\
 &= -8 \times \left(+\frac{1}{15}\right) + \frac{8}{15} \\
 &= -\frac{8}{15} + \frac{8}{15} \\
 &= 0
 \end{aligned}$$

24

$$\begin{aligned}
 & \left(-\frac{5}{4}\right)^2 - \frac{3}{5} + \left(-\frac{17}{16}\right) \\
 &= \frac{25}{16} - \frac{3}{5} + \left(-\frac{17}{16}\right) \\
 &= -\frac{1}{10}
 \end{aligned}$$

25

$$\left(+\frac{9}{8}\right) \times \left(-\frac{1}{2}\right) \times (-8)^2$$

26

$$\left(\frac{7}{3}\right)^2 \times 9 \times \left(-\frac{3}{7}\right)$$

27

$$\left(+\frac{1}{14}\right) + \left(-\frac{7}{18}\right) \times \left(-\frac{3}{7}\right)^2$$

28

$$\frac{5}{2} \div \left(-\frac{1}{2}\right) - (-4^3)$$

29

$$(-3^2) \times \frac{4}{9} \times 11$$

30

$$\left(+\frac{8}{13}\right) \times (-3)^3 \times \left(+\frac{13}{3}\right)$$

25

$$\begin{aligned} & \left(+\frac{9}{8}\right) \times \left(-\frac{1}{2}\right) \times (-8)^2 \\ &= \left(+\frac{9}{8}\right) \times \left(-\frac{1}{2}\right) \times 64 \\ &= -36 \end{aligned}$$

26

$$\begin{aligned} & \left(\frac{7}{3}\right)^2 \times 9 \times \left(-\frac{3}{7}\right) \\ &= \frac{49}{9} \times 9 \times \left(-\frac{3}{7}\right) \\ &= -21 \end{aligned}$$

27

$$\begin{aligned} & \left(+\frac{1}{14}\right) + \left(-\frac{7}{18}\right) \times \left(-\frac{3}{7}\right)^2 \\ &= \left(+\frac{1}{14}\right) + \left(-\frac{7}{18}\right) \times \frac{9}{49} \\ &= \left(+\frac{1}{14}\right) + \left(-\frac{1}{14}\right) \\ &= 0 \end{aligned}$$

28

$$\begin{aligned} & \frac{5}{2} \div \left(-\frac{1}{2}\right) - (-4^3) \\ &= \frac{5}{2} \div \left(-\frac{1}{2}\right) - (-64) \\ &= \frac{5}{2} \times (-2) - (-64) \\ &= -5 - (-64) \\ &= -5 + 64 \\ &= 59 \end{aligned}$$

29

$$\begin{aligned} & (-3^2) \times \frac{4}{9} \times 11 \\ &= -9 \times \frac{4}{9} \times 11 \\ &= -44 \end{aligned}$$

30

$$\begin{aligned} & \left(+\frac{8}{13}\right) \times (-3)^3 \times \left(+\frac{13}{3}\right) \\ &= \left(+\frac{8}{13}\right) \times (-27) \times \left(+\frac{13}{3}\right) \\ &= -72 \end{aligned}$$

①

$$\frac{17}{3} \div \left(-\frac{17}{18}\right) \div \left(\frac{1}{3}\right)^2$$

②

$$\left(+\frac{20}{9}\right) - 4^2 - \frac{11}{9}$$

③

$$(-2^2) \times \left(+\frac{5}{4}\right) \times (-16)$$

④

$$-4^2 \div (-2)^4 - (-14)$$

⑤

$$(-2^4) + \frac{16}{5} \times \frac{11}{2}$$

⑥

$$(-4)^2 + (-16) \times \left(+\frac{13}{12}\right)$$

1

$$\begin{aligned}
 & \frac{17}{3} \div \left(-\frac{17}{18}\right) \div \left(\frac{1}{3}\right)^2 \\
 &= \frac{17}{3} \div \left(-\frac{17}{18}\right) \div \frac{1}{9} \\
 &= \frac{17}{3} \times \left(-\frac{18}{17}\right) \times 9 \\
 &= -54
 \end{aligned}$$

2

$$\begin{aligned}
 & \left(+\frac{20}{9}\right) - 4^2 - \frac{11}{9} \\
 &= \left(+\frac{20}{9}\right) - 16 - \frac{11}{9} \\
 &= -15
 \end{aligned}$$

3

$$\begin{aligned}
 & (-2^2) \times \left(+\frac{5}{4}\right) \times (-16) \\
 &= -4 \times \left(+\frac{5}{4}\right) \times (-16) \\
 &= 80
 \end{aligned}$$

4

$$\begin{aligned}
 & -4^2 \div (-2)^4 - (-14) \\
 &= -16 \div (-2)^4 - (-14) \\
 &= -16 \div 16 - (-14) \\
 &= -1 - (-14) \\
 &= -1 + 14 \\
 &= 13
 \end{aligned}$$

5

$$\begin{aligned}
 & (-2^4) + \frac{16}{5} \times \frac{11}{2} \\
 &= -16 + \frac{16}{5} \times \frac{11}{2} \\
 &= -16 + \frac{88}{5} \\
 &= \frac{8}{5}
 \end{aligned}$$

6

$$\begin{aligned}
 & (-4)^2 + (-16) \times \left(+\frac{13}{12}\right) \\
 &= 16 + (-16) \times \left(+\frac{13}{12}\right) \\
 &= 16 + \left(-\frac{52}{3}\right) \\
 &= -\frac{4}{3}
 \end{aligned}$$

7

$$\left(+\frac{7}{2}\right) \times 2^3 - (-20)$$

8

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

9

$$-\frac{15}{13} \times (-6^2) \times \left(-\frac{13}{9}\right)$$

10

$$2^2 \div \frac{9}{2} \div \left(-\frac{8}{3}\right)^2$$

11

$$\left(-\frac{1}{2}\right) \times \left(-\frac{9}{2}\right) \div \left(-\frac{1}{4}\right)^2$$

12

$$\left(+\frac{7}{12}\right) \div \left(-\frac{1}{4}\right)^2 - \frac{17}{2}$$

7

$$\begin{aligned}
 & \left(+\frac{7}{2}\right) \times 2^3 - (-20) \\
 = & \left(+\frac{7}{2}\right) \times 8 - (-20) \\
 = & 28 - (-20) \\
 = & 28 + 20 \\
 = & 48
 \end{aligned}$$

8

$$\begin{aligned}
 & \frac{5}{2} \div \left(-\frac{8}{7}\right)^2 \div \left(-\frac{7}{4}\right)^2 \\
 = & \frac{5}{2} \div \frac{64}{49} \div \left(-\frac{7}{4}\right)^2 \\
 = & \frac{5}{2} \div \frac{64}{49} \div \frac{49}{16} \\
 = & \frac{5}{2} \times \frac{49}{64} \times \frac{16}{49} \\
 = & \frac{5}{8}
 \end{aligned}$$

9

$$\begin{aligned}
 & -\frac{15}{13} \times (-6^2) \times \left(-\frac{13}{9}\right) \\
 = & -\frac{15}{13} \times (-36) \times \left(-\frac{13}{9}\right) \\
 = & -60
 \end{aligned}$$

10

$$\begin{aligned}
 & 2^2 \div \frac{9}{2} \div \left(-\frac{8}{3}\right)^2 \\
 = & 4 \div \frac{9}{2} \div \left(-\frac{8}{3}\right)^2 \\
 = & 4 \div \frac{9}{2} \div \frac{64}{9} \\
 = & 4 \times \frac{2}{9} \times \frac{9}{64} \\
 = & \frac{1}{8}
 \end{aligned}$$

11

$$\begin{aligned}
 & \left(-\frac{1}{2}\right) \times \left(-\frac{9}{2}\right) \div \left(-\frac{1}{4}\right)^2 \\
 = & \left(-\frac{1}{2}\right) \times \left(-\frac{9}{2}\right) \div \frac{1}{16} \\
 = & -\frac{1}{2} \times \left(-\frac{9}{2}\right) \times 16 \\
 = & 36
 \end{aligned}$$

12

$$\begin{aligned}
 & \left(+\frac{7}{12}\right) \div \left(-\frac{1}{4}\right)^2 - \frac{17}{2} \\
 = & \left(+\frac{7}{12}\right) \div \frac{1}{16} - \frac{17}{2} \\
 = & \frac{7}{12} \times 16 - \frac{17}{2} \\
 = & \frac{28}{3} - \frac{17}{2} \\
 = & \frac{5}{6}
 \end{aligned}$$

13

$$-\frac{1}{3} \times \left(-\frac{1}{4}\right) \times (-2^3)$$

14

$$\left(-\frac{1}{3}\right)^2 - \left(-\frac{10}{13}\right) \div \frac{15}{13}$$

15

$$-\frac{15}{7} \div \left(-\frac{5}{7}\right)^2 \times \left(-\frac{5}{12}\right)$$

16

$$-\frac{15}{8} - \frac{17}{8} + (-4)^3$$

17

$$-2^5 - 12 \div \frac{1}{3}$$

18

$$-\frac{8}{17} \div \left(+\frac{2}{17}\right) \times \left(\frac{7}{2}\right)^2$$

13

$$\begin{aligned}
 & -\frac{1}{3} \times \left(-\frac{1}{4}\right) \times (-2^3) \\
 = & -\frac{1}{3} \times \left(-\frac{1}{4}\right) \times (-8) \\
 = & -\frac{2}{3}
 \end{aligned}$$

14

$$\begin{aligned}
 & \left(-\frac{1}{3}\right)^2 - \left(-\frac{10}{13}\right) \div \frac{15}{13} \\
 = & \frac{1}{9} - \left(-\frac{10}{13}\right) \div \frac{15}{13} \\
 = & \frac{1}{9} - 1 \times \left(-\frac{10}{13}\right) \times \frac{13}{15} \\
 = & \frac{1}{9} + \frac{2}{3} \\
 = & \frac{7}{9}
 \end{aligned}$$

15

$$\begin{aligned}
 & -\frac{15}{7} \div \left(-\frac{5}{7}\right)^2 \times \left(-\frac{5}{12}\right) \\
 = & -\frac{15}{7} \div \frac{25}{49} \times \left(-\frac{5}{12}\right) \\
 = & -\frac{15}{7} \times \frac{49}{25} \times \left(-\frac{5}{12}\right) \\
 = & \frac{7}{4}
 \end{aligned}$$

16

$$\begin{aligned}
 & -\frac{15}{8} - \frac{17}{8} + (-4)^3 \\
 = & -\frac{15}{8} - \frac{17}{8} + (-64) \\
 = & -68
 \end{aligned}$$

17

$$\begin{aligned}
 & -2^5 - 12 \div \frac{1}{3} \\
 = & -32 - 12 \div \frac{1}{3} \\
 = & -32 - 12 \times 3 \\
 = & -32 - 36 \\
 = & -68
 \end{aligned}$$

18

$$\begin{aligned}
 & -\frac{8}{17} \div \left(+\frac{2}{17}\right) \times \left(\frac{7}{2}\right)^2 \\
 = & -\frac{8}{17} \div \left(+\frac{2}{17}\right) \times \frac{49}{4} \\
 = & -\frac{8}{17} \times \frac{17}{2} \times \frac{49}{4} \\
 = & -49
 \end{aligned}$$

19

$$\frac{12}{17} \div \left(-\frac{2}{17}\right) \times (-2^2)$$

20

$$\left(-\frac{10}{3}\right) \div \left(-\frac{1}{3}\right)^2 \div \frac{1}{3}$$

21

$$-4^2 \div \left(+\frac{2}{5}\right) \div (-6^2)$$

22

$$(-10) \times \frac{10}{7} \times \left(-\frac{3}{10}\right)^2$$

23

$$\left(\frac{6}{5}\right)^2 \div \left(-\frac{16}{5}\right) \div \left(-\frac{1}{5}\right)$$

24

$$20 + \left(\frac{7}{6}\right)^2 - \left(-\frac{9}{2}\right)^2$$

19

$$\begin{aligned}
& \frac{12}{17} \div \left(-\frac{2}{17}\right) \times (-2^2) \\
&= \frac{12}{17} \div \left(-\frac{2}{17}\right) \times (-4) \\
&= \frac{12}{17} \times \left(-\frac{17}{2}\right) \times (-4) \\
&= 24
\end{aligned}$$

20

$$\begin{aligned}
& \left(-\frac{10}{3}\right) \div \left(-\frac{1}{3}\right)^2 \div \frac{1}{3} \\
&= \left(-\frac{10}{3}\right) \div \frac{1}{9} \div \frac{1}{3} \\
&= -\frac{10}{3} \times 9 \times 3 \\
&= -90
\end{aligned}$$

21

$$\begin{aligned}
& -4^2 \div \left(+\frac{2}{5}\right) \div (-6^2) \\
&= -16 \div \left(+\frac{2}{5}\right) \div (-6^2) \\
&= -16 \div \left(+\frac{2}{5}\right) \div (-36) \\
&= -16 \times \frac{5}{2} \times \left(-\frac{1}{36}\right) \\
&= \frac{10}{9}
\end{aligned}$$

22

$$\begin{aligned}
& (-10) \times \frac{10}{7} \times \left(-\frac{3}{10}\right)^2 \\
&= (-10) \times \frac{10}{7} \times \frac{9}{100} \\
&= -\frac{9}{7}
\end{aligned}$$

23

$$\begin{aligned}
& \left(\frac{6}{5}\right)^2 \div \left(-\frac{16}{5}\right) \div \left(-\frac{1}{5}\right) \\
&= \frac{36}{25} \div \left(-\frac{16}{5}\right) \div \left(-\frac{1}{5}\right) \\
&= \frac{36}{25} \times \left(-\frac{5}{16}\right) \times (-5) \\
&= \frac{9}{4}
\end{aligned}$$

24

$$\begin{aligned}
& 20 + \left(\frac{7}{6}\right)^2 - \left(-\frac{9}{2}\right)^2 \\
&= 20 + \frac{49}{36} - \left(-\frac{9}{2}\right)^2 \\
&= 20 + \frac{49}{36} - \frac{81}{4} \\
&= \frac{10}{9}
\end{aligned}$$

25

$$\left(-\frac{9}{4}\right)^2 \div \left(+\frac{3}{8}\right) \div \frac{9}{16}$$

26

$$-\frac{2}{7} - (-7) - 2^3$$

27

$$15 \times 2^4 \times \frac{1}{10}$$

28

$$-5 + (-6)^2 + (+13)$$

29

$$-5 \times 2^3 \div \left(+\frac{4}{17}\right)$$

30

$$2 \times \left(-\frac{8}{3}\right) \times (-6^2)$$

25

$$\begin{aligned}
 & \left(-\frac{9}{4}\right)^2 \div \left(+\frac{3}{8}\right) \div \frac{9}{16} \\
 &= \frac{81}{16} \div \left(+\frac{3}{8}\right) \div \frac{9}{16} \\
 &= \frac{81}{16} \times \frac{8}{3} \times \frac{16}{9} \\
 &= 24
 \end{aligned}$$

26

$$\begin{aligned}
 & -\frac{2}{7} - (-7) - 2^3 \\
 &= -\frac{2}{7} - (-7) - 8 \\
 &= -\frac{2}{7} + 7 - 8 \\
 &= -\frac{9}{7}
 \end{aligned}$$

27

$$\begin{aligned}
 & 15 \times 2^4 \times \frac{1}{10} \\
 &= 15 \times 16 \times \frac{1}{10} \\
 &= 24
 \end{aligned}$$

28

$$\begin{aligned}
 & -5 + (-6)^2 + (+13) \\
 &= -5 + 36 + (+13) \\
 &= 44
 \end{aligned}$$

29

$$\begin{aligned}
 & -5 \times 2^3 \div \left(+\frac{4}{17}\right) \\
 &= -5 \times 8 \div \left(+\frac{4}{17}\right) \\
 &= -5 \times 8 \times \frac{17}{4} \\
 &= -170
 \end{aligned}$$

30

$$\begin{aligned}
 & 2 \times \left(-\frac{8}{3}\right) \times (-6^2) \\
 &= 2 \times \left(-\frac{8}{3}\right) \times (-36) \\
 &= 192
 \end{aligned}$$

①

$$(-2^5) - (-8^2) - 16$$

②

$$(-3^3) + \frac{11}{2} \times \frac{9}{2}$$

③

$$\left(+\frac{5}{2}\right) \times 4^3 \div \left(+\frac{10}{3}\right)$$

④

$$4^2 + \left(-\frac{5}{2}\right) \div \frac{1}{4}$$

⑤

$$\left(-\frac{1}{2}\right)^2 \div \left(\frac{1}{5}\right)^2 \times (-20)$$

⑥

$$4^3 \times \left(\frac{3}{4}\right)^2 \times \left(+\frac{13}{18}\right)$$

1

$$\begin{aligned}
 & (-2^5) - (-8^2) - 16 \\
 &= -32 - (-8^2) - 16 \\
 &= -32 - (-64) - 16 \\
 &= -32 + 64 - 16 \\
 &= 16
 \end{aligned}$$

2

$$\begin{aligned}
 & (-3^3) + \frac{11}{2} \times \frac{9}{2} \\
 &= -27 + \frac{11}{2} \times \frac{9}{2} \\
 &= -27 + \frac{99}{4} \\
 &= -\frac{9}{4}
 \end{aligned}$$

3

$$\begin{aligned}
 & \left(+\frac{5}{2}\right) \times 4^3 \div \left(+\frac{10}{3}\right) \\
 &= \left(+\frac{5}{2}\right) \times 64 \div \left(+\frac{10}{3}\right) \\
 &= \frac{5}{2} \times 64 \times \frac{3}{10} \\
 &= 48
 \end{aligned}$$

4

$$\begin{aligned}
 & 4^2 + \left(-\frac{5}{2}\right) \div \frac{1}{4} \\
 &= 16 + \left(-\frac{5}{2}\right) \div \frac{1}{4} \\
 &= 16 + \left(-\frac{5}{2}\right) \times 4 \\
 &= 16 + (-10) \\
 &= 6
 \end{aligned}$$

5

$$\begin{aligned}
 & \left(-\frac{1}{2}\right)^2 \div \left(\frac{1}{5}\right)^2 \times (-20) \\
 &= \frac{1}{4} \div \left(\frac{1}{5}\right)^2 \times (-20) \\
 &= \frac{1}{4} \div \frac{1}{25} \times (-20) \\
 &= \frac{1}{4} \times 25 \times (-20) \\
 &= -125
 \end{aligned}$$

6

$$\begin{aligned}
 & 4^3 \times \left(\frac{3}{4}\right)^2 \times \left(+\frac{13}{18}\right) \\
 &= 64 \times \left(\frac{3}{4}\right)^2 \times \left(+\frac{13}{18}\right) \\
 &= 64 \times \frac{9}{16} \times \left(+\frac{13}{18}\right) \\
 &= 26
 \end{aligned}$$

7

$$-\frac{1}{2} + (-2)^2 - \left(+\frac{5}{4}\right)$$

8

$$\left(-\frac{3}{2}\right) + \left(\frac{5}{3}\right)^2 - \left(+\frac{11}{18}\right)$$

9

$$-\frac{14}{3} \times \left(-\frac{9}{2}\right) - (-6)^2$$

10

$$4^3 \times \left(-\frac{17}{4}\right) \div (-16)$$

11

$$\left(-\frac{1}{10}\right) + \left(-\frac{19}{10}\right) + (-4^3)$$

12

$$2^2 \div \left(-\frac{16}{9}\right) + \left(+\frac{9}{20}\right)$$

7

$$\begin{aligned}
 & -\frac{1}{2} + (-2)^2 - \left(+\frac{5}{4}\right) \\
 = & -\frac{1}{2} + 4 - \left(+\frac{5}{4}\right) \\
 = & -\frac{1}{2} + 4 - \frac{5}{4} \\
 = & \frac{9}{4}
 \end{aligned}$$

8

$$\begin{aligned}
 & \left(-\frac{3}{2}\right) + \left(\frac{5}{3}\right)^2 - \left(+\frac{11}{18}\right) \\
 = & \left(-\frac{3}{2}\right) + \frac{25}{9} - \left(+\frac{11}{18}\right) \\
 = & \left(-\frac{3}{2}\right) + \frac{25}{9} - \frac{11}{18} \\
 = & \frac{2}{3}
 \end{aligned}$$

9

$$\begin{aligned}
 & -\frac{14}{3} \times \left(-\frac{9}{2}\right) - (-6)^2 \\
 = & -\frac{14}{3} \times \left(-\frac{9}{2}\right) - 36 \\
 = & 21 - 36 \\
 = & -15
 \end{aligned}$$

10

$$\begin{aligned}
 & 4^3 \times \left(-\frac{17}{4}\right) \div (-16) \\
 = & 64 \times \left(-\frac{17}{4}\right) \div (-16) \\
 = & 64 \times \left(-\frac{17}{4}\right) \times \left(-\frac{1}{16}\right) \\
 = & 17
 \end{aligned}$$

11

$$\begin{aligned}
 & \left(-\frac{1}{10}\right) + \left(-\frac{19}{10}\right) + (-4^3) \\
 = & \left(-\frac{1}{10}\right) + \left(-\frac{19}{10}\right) + (-64) \\
 = & -66
 \end{aligned}$$

12

$$\begin{aligned}
 & 2^2 \div \left(-\frac{16}{9}\right) + \left(+\frac{9}{20}\right) \\
 = & 4 \div \left(-\frac{16}{9}\right) + \left(+\frac{9}{20}\right) \\
 = & 4 \times \left(-\frac{9}{16}\right) + \left(+\frac{9}{20}\right) \\
 = & -\frac{9}{4} + \left(+\frac{9}{20}\right) \\
 = & -\frac{9}{5}
 \end{aligned}$$

13

$$\frac{5}{2} - (-2^3) \times \left(-\frac{1}{3}\right)$$

14

$$(-10)^2 + \left(-\frac{7}{6}\right) \div \left(+\frac{1}{6}\right)$$

15

$$\left(-\frac{1}{2}\right)^2 + \left(-\frac{7}{2}\right)^2 - \left(-\frac{15}{2}\right)$$

16

$$\frac{9}{5} - 2^2 \times \frac{3}{4}$$

17

$$-\frac{1}{20} + \left(-\frac{18}{5}\right) + \left(-\frac{3}{2}\right)^2$$

18

$$5^2 + \frac{11}{16} \times (-6^2)$$

13

$$\begin{aligned}
 & \frac{5}{2} - (-2^3) \times \left(-\frac{1}{3}\right) \\
 = & \frac{5}{2} - (-8) \times \left(-\frac{1}{3}\right) \\
 = & \frac{5}{2} - \frac{8}{3} \\
 = & -\frac{1}{6}
 \end{aligned}$$

14

$$\begin{aligned}
 & (-10)^2 + \left(-\frac{7}{6}\right) \div \left(+\frac{1}{6}\right) \\
 = & 100 + \left(-\frac{7}{6}\right) \div \left(+\frac{1}{6}\right) \\
 = & 100 + \left(-\frac{7}{6}\right) \times 6 \\
 = & 100 + (-7) \\
 = & 93
 \end{aligned}$$

15

$$\begin{aligned}
 & \left(-\frac{1}{2}\right)^2 + \left(-\frac{7}{2}\right)^2 - \left(-\frac{15}{2}\right) \\
 = & \frac{1}{4} + \left(-\frac{7}{2}\right)^2 - \left(-\frac{15}{2}\right) \\
 = & \frac{1}{4} + \frac{49}{4} - \left(-\frac{15}{2}\right) \\
 = & \frac{1}{4} + \frac{49}{4} + \frac{15}{2} \\
 = & 20
 \end{aligned}$$

16

$$\begin{aligned}
 & \frac{9}{5} - 2^2 \times \frac{3}{4} \\
 = & \frac{9}{5} - 4 \times \frac{3}{4} \\
 = & \frac{9}{5} - 3 \\
 = & -\frac{6}{5}
 \end{aligned}$$

17

$$\begin{aligned}
 & -\frac{1}{20} + \left(-\frac{18}{5}\right) + \left(-\frac{3}{2}\right)^2 \\
 = & -\frac{1}{20} + \left(-\frac{18}{5}\right) + \frac{9}{4} \\
 = & -\frac{7}{5}
 \end{aligned}$$

18

$$\begin{aligned}
 & 5^2 + \frac{11}{16} \times (-6^2) \\
 = & 25 + \frac{11}{16} \times (-6^2) \\
 = & 25 + \frac{11}{16} \times (-36) \\
 = & 25 + \left(-\frac{99}{4}\right) \\
 = & \frac{1}{4}
 \end{aligned}$$

19

$$\left(+\frac{5}{2}\right) \times (-2^3) \times \left(-\frac{3}{2}\right)^2$$

20

$$\frac{11}{14} - (-7^2) + \left(+\frac{17}{14}\right)$$

21

$$2^2 + \left(-\frac{17}{2}\right) \div \frac{17}{13}$$

22

$$\left(-\frac{7}{3}\right)^2 - \left(-\frac{19}{18}\right) - (+3)$$

23

$$-\frac{3}{2} + \left(\frac{1}{6}\right)^2 + \left(-\frac{5}{18}\right)$$

24

$$\left(-\frac{9}{4}\right) + 9 \div \left(\frac{6}{5}\right)^2$$

19

$$\begin{aligned}
 & \left(+\frac{5}{2}\right) \times (-2^3) \times \left(-\frac{3}{2}\right)^2 \\
 &= \left(+\frac{5}{2}\right) \times (-8) \times \left(-\frac{3}{2}\right)^2 \\
 &= \left(+\frac{5}{2}\right) \times (-8) \times \frac{9}{4} \\
 &= -45
 \end{aligned}$$

20

$$\begin{aligned}
 & \frac{11}{14} - (-7^2) + \left(+\frac{17}{14}\right) \\
 &= \frac{11}{14} - (-49) + \left(+\frac{17}{14}\right) \\
 &= \frac{11}{14} + 49 + \left(+\frac{17}{14}\right) \\
 &= 51
 \end{aligned}$$

21

$$\begin{aligned}
 & 2^2 + \left(-\frac{17}{2}\right) \div \frac{17}{13} \\
 &= 4 + \left(-\frac{17}{2}\right) \div \frac{17}{13} \\
 &= 4 + \left(-\frac{17}{2}\right) \times \frac{13}{17} \\
 &= 4 + \left(-\frac{13}{2}\right) \\
 &= -\frac{5}{2}
 \end{aligned}$$

22

$$\begin{aligned}
 & \left(-\frac{7}{3}\right)^2 - \left(-\frac{19}{18}\right) - (+3) \\
 &= \frac{49}{9} - \left(-\frac{19}{18}\right) - (+3) \\
 &= \frac{49}{9} + \frac{19}{18} - (+3) \\
 &= \frac{49}{9} + \frac{19}{18} - 3 \\
 &= \frac{7}{2}
 \end{aligned}$$

23

$$\begin{aligned}
 & -\frac{3}{2} + \left(\frac{1}{6}\right)^2 + \left(-\frac{5}{18}\right) \\
 &= -\frac{3}{2} + \frac{1}{36} + \left(-\frac{5}{18}\right) \\
 &= -\frac{7}{4}
 \end{aligned}$$

24

$$\begin{aligned}
 & \left(-\frac{9}{4}\right) + 9 \div \left(\frac{6}{5}\right)^2 \\
 &= \left(-\frac{9}{4}\right) + 9 \div \frac{36}{25} \\
 &= \left(-\frac{9}{4}\right) + 9 \times \frac{25}{36} \\
 &= \left(-\frac{9}{4}\right) + \frac{25}{4} \\
 &= 4
 \end{aligned}$$

25

$$\left(-\frac{5}{4}\right) \times (-2)^4 + 7^2$$

26

$$\left(+\frac{7}{6}\right) \times 6^2 \times \left(-\frac{10}{7}\right)$$

27

$$-\frac{13}{4} - \frac{3}{4} - 3^4$$

28

$$-\frac{7}{8} \times 2^3 \times 12$$

29

$$2^2 - \left(-\frac{13}{3}\right) \div \left(+\frac{1}{3}\right)$$

30

$$\left(+\frac{7}{2}\right) \times \left(-\frac{2}{7}\right)^2 \div \left(-\frac{18}{7}\right)$$

25

$$\begin{aligned}
 & \left(-\frac{5}{4}\right) \times (-2)^4 + 7^2 \\
 = & \left(-\frac{5}{4}\right) \times 16 + 7^2 \\
 = & \left(-\frac{5}{4}\right) \times 16 + 49 \\
 = & -20 + 49 \\
 = & 29
 \end{aligned}$$

26

$$\begin{aligned}
 & \left(+\frac{7}{6}\right) \times 6^2 \times \left(-\frac{10}{7}\right) \\
 = & \left(+\frac{7}{6}\right) \times 36 \times \left(-\frac{10}{7}\right) \\
 = & -60
 \end{aligned}$$

27

$$\begin{aligned}
 & -\frac{13}{4} - \frac{3}{4} - 3^4 \\
 = & -\frac{13}{4} - \frac{3}{4} - 81 \\
 = & -85
 \end{aligned}$$

28

$$\begin{aligned}
 & -\frac{7}{8} \times 2^3 \times 12 \\
 = & -\frac{7}{8} \times 8 \times 12 \\
 = & -84
 \end{aligned}$$

29

$$\begin{aligned}
 & 2^2 - \left(-\frac{13}{3}\right) \div \left(+\frac{1}{3}\right) \\
 = & 4 - \left(-\frac{13}{3}\right) \div \left(+\frac{1}{3}\right) \\
 = & 4 - 1 \times \left(-\frac{13}{3}\right) \times 3 \\
 = & 4 + 13 \\
 = & 17
 \end{aligned}$$

30

$$\begin{aligned}
 & \left(+\frac{7}{2}\right) \times \left(-\frac{2}{7}\right)^2 \div \left(-\frac{18}{7}\right) \\
 = & \left(+\frac{7}{2}\right) \times \frac{4}{49} \div \left(-\frac{18}{7}\right) \\
 = & \frac{7}{2} \times \frac{4}{49} \times \left(-\frac{7}{18}\right) \\
 = & -\frac{1}{9}
 \end{aligned}$$

問題

分配法則を利用して計算しましょう。

①

$$-5 \times 9 + 13 \times 9$$

②

$$(-2) \times (-14) + (-2) \times 5$$

③

$$\left(-\frac{7}{2} + \frac{13}{3}\right) \times (-6)$$

④

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

⑤

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

⑥

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

⑦

$$-18 \times 2 - 20 \times 2$$

⑧

$$\left(-\frac{7}{3} + \frac{9}{4}\right) \times 12$$

1

$$\begin{aligned}
 & -5 \times 9 + 13 \times 9 \\
 & = (-5 + 13) \times 9 \\
 & = 8 \times 9 \\
 & = 72
 \end{aligned}$$

2

$$\begin{aligned}
 & (-2) \times (-14) + (-2) \times 5 \\
 & = -2 \times (-14 + 5) \\
 & = (-2) \times (-9) \\
 & = 18
 \end{aligned}$$

3

$$\begin{aligned}
 & \left(-\frac{7}{2} + \frac{13}{3}\right) \times (-6) \\
 & = -\frac{7}{2} \times (-6) + \frac{13}{3} \times (-6) \\
 & = 21 - 26 \\
 & = -5
 \end{aligned}$$

4

$$\begin{aligned}
 & (-5) \times (-3) + (-5) \times 5 \\
 & = -5 \times (-3 + 5) \\
 & = (-5) \times 2 \\
 & = -10
 \end{aligned}$$

5

$$\begin{aligned}
 & 11 \times (-10) + 2 \times (-10) \\
 & = (11 + 2) \times (-10) \\
 & = 13 \times (-10) \\
 & = -130
 \end{aligned}$$

6

$$\begin{aligned}
 & 3 \times (-12) + 3 \times 8 \\
 & = 3 \times (-12 + 8) \\
 & = 3 \times (-4) \\
 & = -12
 \end{aligned}$$

7

$$\begin{aligned}
 & -18 \times 2 - 20 \times 2 \\
 & = (-18 - 20) \times 2 \\
 & = -38 \times 2 \\
 & = -76
 \end{aligned}$$

8

$$\begin{aligned}
 & \left(-\frac{7}{3} + \frac{9}{4}\right) \times 12 \\
 & = -\frac{7}{3} \times 12 + \frac{9}{4} \times 12 \\
 & = -28 + 27 \\
 & = -1
 \end{aligned}$$

$$\textcircled{9}$$

$$10 \times \left(\frac{11}{2} - \frac{6}{5} \right)$$

$$\textcircled{10}$$

$$-14 \times (-7) + 19 \times (-7)$$

$$\textcircled{11}$$

$$12 \times \left(-\frac{11}{2} + \frac{35}{4} \right)$$

$$\textcircled{12}$$

$$(-3) \times (-16) + (-3) \times (-15)$$

$$\textcircled{13}$$

$$-4 \times \left(-\frac{7}{2} - \frac{23}{4} \right)$$

$$\textcircled{14}$$

$$(-8) \times 12 + (-8) \times 10$$

$$\textcircled{15}$$

$$-12 \times \left(\frac{4}{3} - \frac{25}{12} \right)$$

$$\textcircled{16}$$

$$3 \times 9 + 3 \times 20$$

9

$$\begin{aligned}
 & 10 \times \left(\frac{11}{2} - \frac{6}{5} \right) \\
 &= 10 \times \frac{11}{2} + 10 \times \left(-\frac{6}{5} \right) \\
 &= 55 - 12 \\
 &= 43
 \end{aligned}$$

10

$$\begin{aligned}
 & -14 \times (-7) + 19 \times (-7) \\
 &= (-14 + 19) \times (-7) \\
 &= 5 \times (-7) \\
 &= -35
 \end{aligned}$$

11

$$\begin{aligned}
 & 12 \times \left(-\frac{11}{2} + \frac{35}{4} \right) \\
 &= 12 \times \left(-\frac{11}{2} \right) + 12 \times \frac{35}{4} \\
 &= -66 + 105 \\
 &= 39
 \end{aligned}$$

12

$$\begin{aligned}
 & (-3) \times (-16) + (-3) \times (-15) \\
 &= -3 \times (-16 - 15) \\
 &= (-3) \times (-31) \\
 &= 93
 \end{aligned}$$

13

$$\begin{aligned}
 & -4 \times \left(-\frac{7}{2} - \frac{23}{4} \right) \\
 &= (-4) \times \left(-\frac{7}{2} \right) + (-4) \times \left(-\frac{23}{4} \right) \\
 &= 14 + 23 \\
 &= 37
 \end{aligned}$$

14

$$\begin{aligned}
 & (-8) \times 12 + (-8) \times 10 \\
 &= -8 \times (12 + 10) \\
 &= (-8) \times 22 \\
 &= -176
 \end{aligned}$$

15

$$\begin{aligned}
 & -12 \times \left(\frac{4}{3} - \frac{25}{12} \right) \\
 &= (-12) \times \frac{4}{3} + (-12) \times \left(-\frac{25}{12} \right) \\
 &= -16 + 25 \\
 &= 9
 \end{aligned}$$

16

$$\begin{aligned}
 & 3 \times 9 + 3 \times 20 \\
 &= 3 \times (9 + 20) \\
 &= 3 \times 29 \\
 &= 87
 \end{aligned}$$

17

$$7 \times (-8) + 7 \times (-11)$$

18

$$-7 \times (-10) + 13 \times (-10)$$

19

$$-18 \times \left(-\frac{1}{2} + \frac{19}{6}\right)$$

20

$$16 \times (-6) - 14 \times (-6)$$

21

$$15 \times (-7) - 5 \times (-7)$$

22

$$(-4) \times 16 + (-4) \times 5$$

23

$$\left(-\frac{1}{4} + \frac{1}{5}\right) \times 20$$

24

$$(-8) \times (-15) + (-8) \times 5$$

17

$$\begin{aligned}
 & 7 \times (-8) + 7 \times (-11) \\
 &= 7 \times (-8 - 11) \\
 &= 7 \times (-19) \\
 &= -133
 \end{aligned}$$

18

$$\begin{aligned}
 & -7 \times (-10) + 13 \times (-10) \\
 &= (-7 + 13) \times (-10) \\
 &= 6 \times (-10) \\
 &= -60
 \end{aligned}$$

19

$$\begin{aligned}
 & -18 \times \left(-\frac{1}{2} + \frac{19}{6}\right) \\
 &= (-18) \times \left(-\frac{1}{2}\right) + (-18) \times \frac{19}{6} \\
 &= 9 - 57 \\
 &= -48
 \end{aligned}$$

20

$$\begin{aligned}
 & 16 \times (-6) - 14 \times (-6) \\
 &= (16 - 14) \times (-6) \\
 &= 2 \times (-6) \\
 &= -12
 \end{aligned}$$

21

$$\begin{aligned}
 & 15 \times (-7) - 5 \times (-7) \\
 &= (15 - 5) \times (-7) \\
 &= 10 \times (-7) \\
 &= -70
 \end{aligned}$$

22

$$\begin{aligned}
 & (-4) \times 16 + (-4) \times 5 \\
 &= -4 \times (16 + 5) \\
 &= (-4) \times 21 \\
 &= -84
 \end{aligned}$$

23

$$\begin{aligned}
 & \left(-\frac{1}{4} + \frac{1}{5}\right) \times 20 \\
 &= -\frac{1}{4} \times 20 + \frac{1}{5} \times 20 \\
 &= -5 + 4 \\
 &= -1
 \end{aligned}$$

24

$$\begin{aligned}
 & (-8) \times (-15) + (-8) \times 5 \\
 &= -8 \times (-15 + 5) \\
 &= (-8) \times (-10) \\
 &= 80
 \end{aligned}$$

25

$$2 \times (-16) + 2 \times (-8)$$

26

$$(-9) \times (-8) + (-9) \times (-12)$$

27

$$20 \times (-2) - 17 \times (-2)$$

28

$$(-7) \times 16 + (-7) \times (-9)$$

29

$$-14 \times 4 + 8 \times 4$$

30

$$-9 \times 5 - 12 \times 5$$

31

$$\left(\frac{11}{4} + \frac{1}{6}\right) \times (-12)$$

32

$$7 \times 14 + 7 \times (-13)$$

25

$$\begin{aligned}
 & 2 \times (-16) + 2 \times (-8) \\
 &= 2 \times (-16 - 8) \\
 &= 2 \times (-24) \\
 &= -48
 \end{aligned}$$

26

$$\begin{aligned}
 & (-9) \times (-8) + (-9) \times (-12) \\
 &= -9 \times (-8 - 12) \\
 &= (-9) \times (-20) \\
 &= 180
 \end{aligned}$$

27

$$\begin{aligned}
 & 20 \times (-2) - 17 \times (-2) \\
 &= (20 - 17) \times (-2) \\
 &= 3 \times (-2) \\
 &= -6
 \end{aligned}$$

28

$$\begin{aligned}
 & (-7) \times 16 + (-7) \times (-9) \\
 &= -7 \times (16 - 9) \\
 &= (-7) \times 7 \\
 &= -49
 \end{aligned}$$

29

$$\begin{aligned}
 & -14 \times 4 + 8 \times 4 \\
 &= (-14 + 8) \times 4 \\
 &= -6 \times 4 \\
 &= -24
 \end{aligned}$$

30

$$\begin{aligned}
 & -9 \times 5 - 12 \times 5 \\
 &= (-9 - 12) \times 5 \\
 &= -21 \times 5 \\
 &= -105
 \end{aligned}$$

31

$$\begin{aligned}
 & \left(\frac{11}{4} + \frac{1}{6} \right) \times (-12) \\
 &= \frac{11}{4} \times (-12) + \frac{1}{6} \times (-12) \\
 &= -33 - 2 \\
 &= -35
 \end{aligned}$$

32

$$\begin{aligned}
 & 7 \times 14 + 7 \times (-13) \\
 &= 7 \times (14 - 13) \\
 &= 7 \times 1 \\
 &= 7
 \end{aligned}$$

33

$$9 \times 8 + 7 \times 8$$

34

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

35

$$12 \times \left(-\frac{10}{3} + \frac{17}{4}\right)$$

36

$$10 \times 5 + 2 \times 5$$

37

$$\left(-\frac{3}{2} - \frac{29}{14}\right) \times 14$$

38

$$4 \times 7 - 16 \times 7$$

39

$$(-4) \times (-15) + (-4) \times (-20)$$

40

$$\left(-\frac{15}{7} + \frac{15}{14}\right) \times (-14)$$

33

$$\begin{aligned}
 & 9 \times 8 + 7 \times 8 \\
 &= (9 + 7) \times 8 \\
 &= 16 \times 8 \\
 &= 128
 \end{aligned}$$

34

$$\begin{aligned}
 & \left(\frac{3}{4} - \frac{1}{8}\right) \times 8 \\
 &= \frac{3}{4} \times 8 - \frac{1}{8} \times 8 \\
 &= 6 - 1 \\
 &= 5
 \end{aligned}$$

35

$$\begin{aligned}
 & 12 \times \left(-\frac{10}{3} + \frac{17}{4}\right) \\
 &= 12 \times \left(-\frac{10}{3}\right) + 12 \times \frac{17}{4} \\
 &= -40 + 51 \\
 &= 11
 \end{aligned}$$

36

$$\begin{aligned}
 & 10 \times 5 + 2 \times 5 \\
 &= (10 + 2) \times 5 \\
 &= 12 \times 5 \\
 &= 60
 \end{aligned}$$

37

$$\begin{aligned}
 & \left(-\frac{3}{2} - \frac{29}{14}\right) \times 14 \\
 &= -\frac{3}{2} \times 14 - \frac{29}{14} \times 14 \\
 &= -21 - 29 \\
 &= -50
 \end{aligned}$$

38

$$\begin{aligned}
 & 4 \times 7 - 16 \times 7 \\
 &= (4 - 16) \times 7 \\
 &= -12 \times 7 \\
 &= -84
 \end{aligned}$$

39

$$\begin{aligned}
 & (-4) \times (-15) + (-4) \times (-20) \\
 &= -4 \times (-15 - 20) \\
 &= (-4) \times (-35) \\
 &= 140
 \end{aligned}$$

40

$$\begin{aligned}
 & \left(-\frac{15}{7} + \frac{15}{14}\right) \times (-14) \\
 &= -\frac{15}{7} \times (-14) + \frac{15}{14} \times (-14) \\
 &= 30 - 15 \\
 &= 15
 \end{aligned}$$

①

$$-3 \times (-10) + 15 \times (-10)$$

②

$$6 \times 9 - 3 \times 9$$

③

$$2 \times 2 + 10 \times 2$$

④

$$\left(\frac{5}{2} - \frac{17}{8}\right) \times 8$$

⑤

$$6 \times \left(\frac{10}{3} - \frac{55}{6}\right)$$

⑥

$$\left(\frac{13}{3} - \frac{16}{15}\right) \times (-15)$$

⑦

$$7 \times 16 + 7 \times (-9)$$

⑧

$$4 \times (-18) + 4 \times (-20)$$

1

$$\begin{aligned}
 & -3 \times (-10) + 15 \times (-10) \\
 & = (-3 + 15) \times (-10) \\
 & = 12 \times (-10) \\
 & = -120
 \end{aligned}$$

2

$$\begin{aligned}
 & 6 \times 9 - 3 \times 9 \\
 & = (6 - 3) \times 9 \\
 & = 3 \times 9 \\
 & = 27
 \end{aligned}$$

3

$$\begin{aligned}
 & 2 \times 2 + 10 \times 2 \\
 & = (2 + 10) \times 2 \\
 & = 12 \times 2 \\
 & = 24
 \end{aligned}$$

4

$$\begin{aligned}
 & \left(\frac{5}{2} - \frac{17}{8}\right) \times 8 \\
 & = \frac{5}{2} \times 8 - \frac{17}{8} \times 8 \\
 & = 20 - 17 \\
 & = 3
 \end{aligned}$$

5

$$\begin{aligned}
 & 6 \times \left(\frac{10}{3} - \frac{55}{6}\right) \\
 & = 6 \times \frac{10}{3} + 6 \times \left(-\frac{55}{6}\right) \\
 & = 20 - 55 \\
 & = -35
 \end{aligned}$$

6

$$\begin{aligned}
 & \left(\frac{13}{3} - \frac{16}{15}\right) \times (-15) \\
 & = \frac{13}{3} \times (-15) - \frac{16}{15} \times (-15) \\
 & = -65 + 16 \\
 & = -49
 \end{aligned}$$

7

$$\begin{aligned}
 & 7 \times 16 + 7 \times (-9) \\
 & = 7 \times (16 - 9) \\
 & = 7 \times 7 \\
 & = 49
 \end{aligned}$$

8

$$\begin{aligned}
 & 4 \times (-18) + 4 \times (-20) \\
 & = 4 \times (-18 - 20) \\
 & = 4 \times (-38) \\
 & = -152
 \end{aligned}$$

9

$$-4 \times \left(\frac{3}{2} + \frac{19}{4} \right)$$

10

$$(-8) \times (-16) + (-8) \times (-2)$$

11

$$5 \times (-19) + 5 \times (-7)$$

12

$$-12 \times \left(\frac{1}{3} - \frac{11}{4} \right)$$

13

$$\left(\frac{1}{2} + \frac{13}{3} \right) \times 6$$

14

$$(-9) \times 4 + (-9) \times 18$$

15

$$18 \times \left(\frac{13}{6} - \frac{19}{9} \right)$$

16

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

9

$$\begin{aligned}
 & -4 \times \left(\frac{3}{2} + \frac{19}{4} \right) \\
 &= (-4) \times \frac{3}{2} + (-4) \times \frac{19}{4} \\
 &= -6 - 19 \\
 &= -25
 \end{aligned}$$

10

$$\begin{aligned}
 & (-8) \times (-16) + (-8) \times (-2) \\
 &= -8 \times (-16 - 2) \\
 &= (-8) \times (-18) \\
 &= 144
 \end{aligned}$$

11

$$\begin{aligned}
 & 5 \times (-19) + 5 \times (-7) \\
 &= 5 \times (-19 - 7) \\
 &= 5 \times (-26) \\
 &= -130
 \end{aligned}$$

12

$$\begin{aligned}
 & -12 \times \left(\frac{1}{3} - \frac{11}{4} \right) \\
 &= (-12) \times \frac{1}{3} + (-12) \times \left(-\frac{11}{4} \right) \\
 &= -4 + 33 \\
 &= 29
 \end{aligned}$$

13

$$\begin{aligned}
 & \left(\frac{1}{2} + \frac{13}{3} \right) \times 6 \\
 &= \frac{1}{2} \times 6 + \frac{13}{3} \times 6 \\
 &= 3 + 26 \\
 &= 29
 \end{aligned}$$

14

$$\begin{aligned}
 & (-9) \times 4 + (-9) \times 18 \\
 &= -9 \times (4 + 18) \\
 &= (-9) \times 22 \\
 &= -198
 \end{aligned}$$

15

$$\begin{aligned}
 & 18 \times \left(\frac{13}{6} - \frac{19}{9} \right) \\
 &= 18 \times \frac{13}{6} + 18 \times \left(-\frac{19}{9} \right) \\
 &= 39 - 38 \\
 &= 1
 \end{aligned}$$

16

$$\begin{aligned}
 & 11 \times (-2) - 8 \times (-2) \\
 &= (11 - 8) \times (-2) \\
 &= 3 \times (-2) \\
 &= -6
 \end{aligned}$$

17

$$14 \times 2 - 11 \times 2$$

18

$$\left(-\frac{9}{2} + \frac{22}{7}\right) \times (-14)$$

19

$$6 \times \left(-\frac{13}{3} + \frac{73}{6}\right)$$

20

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

21

$$8 \times (-8) + 8 \times 14$$

22

$$\left(-\frac{5}{2} - \frac{19}{12}\right) \times (-12)$$

23

$$18 \times 10 - 19 \times 10$$

24

$$-6 \times \left(-\frac{7}{2} + \frac{13}{3}\right)$$

17

$$\begin{aligned}
 & 14 \times 2 - 11 \times 2 \\
 & = (14 - 11) \times 2 \\
 & = 3 \times 2 \\
 & = 6
 \end{aligned}$$

18

$$\begin{aligned}
 & \left(-\frac{9}{2} + \frac{22}{7}\right) \times (-14) \\
 & = -\frac{9}{2} \times (-14) + \frac{22}{7} \times (-14) \\
 & = 63 - 44 \\
 & = 19
 \end{aligned}$$

19

$$\begin{aligned}
 & 6 \times \left(-\frac{13}{3} + \frac{73}{6}\right) \\
 & = 6 \times \left(-\frac{13}{3}\right) + 6 \times \frac{73}{6} \\
 & = -26 + 73 \\
 & = 47
 \end{aligned}$$

20

$$\begin{aligned}
 & (-3) \times (-8) + (-3) \times (-2) \\
 & = -3 \times (-8 - 2) \\
 & = (-3) \times (-10) \\
 & = 30
 \end{aligned}$$

21

$$\begin{aligned}
 & 8 \times (-8) + 8 \times 14 \\
 & = 8 \times (-8 + 14) \\
 & = 8 \times 6 \\
 & = 48
 \end{aligned}$$

22

$$\begin{aligned}
 & \left(-\frac{5}{2} - \frac{19}{12}\right) \times (-12) \\
 & = -\frac{5}{2} \times (-12) - \frac{19}{12} \times (-12) \\
 & = 30 + 19 \\
 & = 49
 \end{aligned}$$

23

$$\begin{aligned}
 & 18 \times 10 - 19 \times 10 \\
 & = (18 - 19) \times 10 \\
 & = -1 \times 10 \\
 & = -10
 \end{aligned}$$

24

$$\begin{aligned}
 & -6 \times \left(-\frac{7}{2} + \frac{13}{3}\right) \\
 & = (-6) \times \left(-\frac{7}{2}\right) + (-6) \times \frac{13}{3} \\
 & = 21 - 26 \\
 & = -5
 \end{aligned}$$

25

$$16 \times \left(-\frac{3}{2} + \frac{17}{8}\right)$$

26

$$-15 \times (-8) - 4 \times (-8)$$

27

$$7 \times 9 + 7 \times 16$$

28

$$\left(\frac{7}{2} - \frac{1}{3}\right) \times (-12)$$

29

$$-15 \times 10 + 13 \times 10$$

30

$$\left(-\frac{7}{2} + \frac{61}{6}\right) \times (-6)$$

31

$$-7 \times (-5) + 14 \times (-5)$$

32

$$-12 \times \left(\frac{4}{3} - \frac{15}{4}\right)$$

25

$$\begin{aligned}
 & 16 \times \left(-\frac{3}{2} + \frac{17}{8}\right) \\
 &= 16 \times \left(-\frac{3}{2}\right) + 16 \times \frac{17}{8} \\
 &= -24 + 34 \\
 &= 10
 \end{aligned}$$

26

$$\begin{aligned}
 & -15 \times (-8) - 4 \times (-8) \\
 &= (-15 - 4) \times (-8) \\
 &= -19 \times (-8) \\
 &= 152
 \end{aligned}$$

27

$$\begin{aligned}
 & 7 \times 9 + 7 \times 16 \\
 &= 7 \times (9 + 16) \\
 &= 7 \times 25 \\
 &= 175
 \end{aligned}$$

28

$$\begin{aligned}
 & \left(\frac{7}{2} - \frac{1}{3}\right) \times (-12) \\
 &= \frac{7}{2} \times (-12) - \frac{1}{3} \times (-12) \\
 &= -42 + 4 \\
 &= -38
 \end{aligned}$$

29

$$\begin{aligned}
 & -15 \times 10 + 13 \times 10 \\
 &= (-15 + 13) \times 10 \\
 &= -2 \times 10 \\
 &= -20
 \end{aligned}$$

30

$$\begin{aligned}
 & \left(-\frac{7}{2} + \frac{61}{6}\right) \times (-6) \\
 &= -\frac{7}{2} \times (-6) + \frac{61}{6} \times (-6) \\
 &= 21 - 61 \\
 &= -40
 \end{aligned}$$

31

$$\begin{aligned}
 & -7 \times (-5) + 14 \times (-5) \\
 &= (-7 + 14) \times (-5) \\
 &= 7 \times (-5) \\
 &= -35
 \end{aligned}$$

32

$$\begin{aligned}
 & -12 \times \left(\frac{4}{3} - \frac{15}{4}\right) \\
 &= (-12) \times \frac{4}{3} + (-12) \times \left(-\frac{15}{4}\right) \\
 &= -16 + 45 \\
 &= 29
 \end{aligned}$$

33

$$\left(\frac{7}{4} - \frac{25}{12}\right) \times (-12)$$

34

$$-2 \times 5 + 8 \times 5$$

35

$$14 \times 3 - 15 \times 3$$

36

$$4 \times 10 + 4 \times 2$$

37

$$16 \times \left(-\frac{7}{2} + \frac{3}{4}\right)$$

38

$$(-3) \times 6 + (-3) \times (-13)$$

39

$$8 \times 3 + 2 \times 3$$

40

$$3 \times (-12) + 3 \times (-18)$$

33

$$\begin{aligned}
 & \left(\frac{7}{4} - \frac{25}{12}\right) \times (-12) \\
 &= \frac{7}{4} \times (-12) - \frac{25}{12} \times (-12) \\
 &= -21 + 25 \\
 &= 4
 \end{aligned}$$

34

$$\begin{aligned}
 & -2 \times 5 + 8 \times 5 \\
 &= (-2 + 8) \times 5 \\
 &= 6 \times 5 \\
 &= 30
 \end{aligned}$$

35

$$\begin{aligned}
 & 14 \times 3 - 15 \times 3 \\
 &= (14 - 15) \times 3 \\
 &= -1 \times 3 \\
 &= -3
 \end{aligned}$$

36

$$\begin{aligned}
 & 4 \times 10 + 4 \times 2 \\
 &= 4 \times (10 + 2) \\
 &= 4 \times 12 \\
 &= 48
 \end{aligned}$$

37

$$\begin{aligned}
 & 16 \times \left(-\frac{7}{2} + \frac{3}{4}\right) \\
 &= 16 \times \left(-\frac{7}{2}\right) + 16 \times \frac{3}{4} \\
 &= -56 + 12 \\
 &= -44
 \end{aligned}$$

38

$$\begin{aligned}
 & (-3) \times 6 + (-3) \times (-13) \\
 &= -3 \times (6 - 13) \\
 &= (-3) \times (-7) \\
 &= 21
 \end{aligned}$$

39

$$\begin{aligned}
 & 8 \times 3 + 2 \times 3 \\
 &= (8 + 2) \times 3 \\
 &= 10 \times 3 \\
 &= 30
 \end{aligned}$$

40

$$\begin{aligned}
 & 3 \times (-12) + 3 \times (-18) \\
 &= 3 \times (-12 - 18) \\
 &= 3 \times (-30) \\
 &= -90
 \end{aligned}$$

①

$$8 \times (-15) + 8 \times 6$$

②

$$\left(-\frac{5}{2} + \frac{49}{12}\right) \times (-12)$$

③

$$11 \times 4 - 18 \times 4$$

④

$$5 \times 7 + 14 \times 7$$

⑤

$$(-2) \times (-3) + (-2) \times (-16)$$

⑥

$$3 \times (-6) + 12 \times (-6)$$

⑦

$$3 \times 7 + 10 \times 7$$

⑧

$$12 \times \left(\frac{5}{2} - \frac{25}{12}\right)$$

1

$$\begin{aligned} & 8 \times (-15) + 8 \times 6 \\ &= 8 \times (-15 + 6) \\ &= 8 \times (-9) \\ &= -72 \end{aligned}$$

2

$$\begin{aligned} & \left(-\frac{5}{2} + \frac{49}{12}\right) \times (-12) \\ &= -\frac{5}{2} \times (-12) + \frac{49}{12} \times (-12) \\ &= 30 - 49 \\ &= -19 \end{aligned}$$

3

$$\begin{aligned} & 11 \times 4 - 18 \times 4 \\ &= (11 - 18) \times 4 \\ &= -7 \times 4 \\ &= -28 \end{aligned}$$

4

$$\begin{aligned} & 5 \times 7 + 14 \times 7 \\ &= (5 + 14) \times 7 \\ &= 19 \times 7 \\ &= 133 \end{aligned}$$

5

$$\begin{aligned} & (-2) \times (-3) + (-2) \times (-16) \\ &= -2 \times (-3 - 16) \\ &= (-2) \times (-19) \\ &= 38 \end{aligned}$$

6

$$\begin{aligned} & 3 \times (-6) + 12 \times (-6) \\ &= (3 + 12) \times (-6) \\ &= 15 \times (-6) \\ &= -90 \end{aligned}$$

7

$$\begin{aligned} & 3 \times 7 + 10 \times 7 \\ &= (3 + 10) \times 7 \\ &= 13 \times 7 \\ &= 91 \end{aligned}$$

8

$$\begin{aligned} & 12 \times \left(\frac{5}{2} - \frac{25}{12}\right) \\ &= 12 \times \frac{5}{2} + 12 \times \left(-\frac{25}{12}\right) \\ &= 30 - 25 \\ &= 5 \end{aligned}$$

$$\textcircled{9}$$

$$(-2) \times 17 + (-2) \times (-10)$$

$$\textcircled{10}$$

$$-9 \times \left(-\frac{4}{3} + \frac{46}{9}\right)$$

$$\textcircled{11}$$

$$(-6) \times (-9) + (-6) \times 19$$

$$\textcircled{12}$$

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

$$\textcircled{13}$$

$$\left(-\frac{3}{2} - \frac{41}{4}\right) \times 4$$

$$\textcircled{14}$$

$$(-7) \times 12 + (-7) \times 4$$

$$\textcircled{15}$$

$$18 \times 5 + 10 \times 5$$

$$\textcircled{16}$$

$$4 \times 7 - 19 \times 7$$

9

$$\begin{aligned}
 & (-2) \times 17 + (-2) \times (-10) \\
 &= -2 \times (17 - 10) \\
 &= (-2) \times 7 \\
 &= -14
 \end{aligned}$$

10

$$\begin{aligned}
 & -9 \times \left(-\frac{4}{3} + \frac{46}{9}\right) \\
 &= (-9) \times \left(-\frac{4}{3}\right) + (-9) \times \frac{46}{9} \\
 &= 12 - 46 \\
 &= -34
 \end{aligned}$$

11

$$\begin{aligned}
 & (-6) \times (-9) + (-6) \times 19 \\
 &= -6 \times (-9 + 19) \\
 &= (-6) \times 10 \\
 &= -60
 \end{aligned}$$

12

$$\begin{aligned}
 & 7 \times (-2) - 8 \times (-2) \\
 &= (7 - 8) \times (-2) \\
 &= -1 \times (-2) \\
 &= 2
 \end{aligned}$$

13

$$\begin{aligned}
 & \left(-\frac{3}{2} - \frac{41}{4}\right) \times 4 \\
 &= -\frac{3}{2} \times 4 - \frac{41}{4} \times 4 \\
 &= -6 - 41 \\
 &= -47
 \end{aligned}$$

14

$$\begin{aligned}
 & (-7) \times 12 + (-7) \times 4 \\
 &= -7 \times (12 + 4) \\
 &= (-7) \times 16 \\
 &= -112
 \end{aligned}$$

15

$$\begin{aligned}
 & 18 \times 5 + 10 \times 5 \\
 &= (18 + 10) \times 5 \\
 &= 28 \times 5 \\
 &= 140
 \end{aligned}$$

16

$$\begin{aligned}
 & 4 \times 7 - 19 \times 7 \\
 &= (4 - 19) \times 7 \\
 &= -15 \times 7 \\
 &= -105
 \end{aligned}$$