**2024**

_____  _____

$\dfrac{4}{7} \times \dfrac{16}{11} \quad \dfrac{4}{11} \times \dfrac{5}{7}$   $\left(\dfrac{5}{6} \quad \dfrac{3}{8} \quad \dfrac{1}{12}\right) \times 48$   $\left(\dfrac{5}{8} \quad \dfrac{7}{12}\right) \div \dfrac{1}{24}$

$\dfrac{13}{27} \times 26$   $\dfrac{13}{25} \times 51 \quad \dfrac{1}{5} \times 8.23 \quad 0.02 \times 28.7 \quad 20\% \times 1.1$

$\dfrac{1}{4} \times 39 \quad \dfrac{3}{4} \times 27$

$\dfrac{1}{8} \times 5 \quad \dfrac{5}{8} \times 5 \quad \dfrac{1}{8} \times 10$   $\dfrac{5}{6} \times \dfrac{1}{13} \quad \dfrac{5}{9} \times \dfrac{2}{13} \quad \dfrac{5}{18} \times \dfrac{6}{13}$
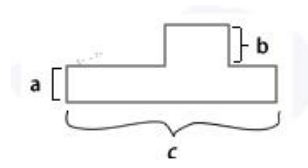
*m*          *n*

*a*          *b*     *a  b*

*T*          *a*          *b*

*T*          *a*               *b*

*S*          *V*          *t*                    *S*



*x*



*a*

*b*

*a*

一、直接写出得数（6分钟）

$\frac{5}{7} \times \frac{3}{4} =$         $\frac{7}{9} \div \frac{9}{7} =$         $\frac{6}{5} \times \frac{4}{3} =$         $\frac{9}{10} \div \frac{3}{2} =$

$\frac{5}{2} \div \frac{15}{2} =$         $\frac{8}{9} \times \frac{3}{4} =$         $\frac{5}{6} \div 1 =$         $\frac{5}{6} \times \frac{9}{10} \times \frac{2}{5} =$

$\frac{19}{20} \times \frac{15}{38} =$         $\frac{1}{5} - \frac{1}{6} =$         $63 \div \frac{7}{9} =$         $1.8 \times \frac{1}{6} =$

$\frac{4}{7} \times 1 =$         $\frac{1}{2} + \frac{1}{7} =$         $\frac{19}{53} \times 0 =$         $\frac{17}{15} \times 60 =$

$8 \times \frac{7}{8} =$         $\frac{1}{4} + \frac{3}{5} =$         $\frac{3}{2} \div \frac{3}{4} =$         $10 \div 0.1 =$

$12 \div \frac{2}{3} =$

二、

谁算得又对又快（9分钟）

$\div \frac{14}{}$         $\frac{3}{8} \times \frac{5}{6} \times \frac{24}{35} =$         $\frac{5}{}$         $\frac{7}{}$ $\frac{11}{}$

$12 \div \frac{3}{5} \times \frac{3}{25}$         $\frac{19}{26} \div \frac{38}{55} \times \frac{5}{11}$

$\frac{5}{8} \times \frac{4}{3} + \frac{5}{8} \div \frac{3}{4}$         $\frac{3}{8} \times 4 \div \frac{3}{8} \times 4$

$\frac{5}{8} \div \frac{7}{12} \div \frac{7}{10}$         $\frac{1}{2} \div \frac{5}{4} \times \frac{2}{3}$         $6 \div \frac{3}{10} - \frac{3}{10} \div 6$

$\frac{1}{3} \times \frac{3}{4} \div (\frac{3}{4} - \frac{5}{12})$         $[\frac{5}{3} - (\frac{2}{5} + \frac{3}{4})] \div \frac{31}{4}$         $(\frac{7}{8} + \frac{13}{16}) \div \frac{13}{16}$

$\frac{7}{18} \times \frac{1}{4} + \frac{3}{4} \times \frac{7}{18}$         $14 \times \frac{5}{7} \div 14 \times \frac{5}{7}$         $36 \times (\frac{7}{9} + \frac{3}{4} - \frac{5}{6})$

$(\frac{4}{9} + \frac{1}{23}) \times 9 + \frac{14}{23}$         $21 \div (\frac{1}{3} + \frac{2}{5}) \div \frac{9}{11}$         $[2 - (\frac{5}{6} + \frac{5}{8})] \times \frac{7}{12}$

|  |  |
|---|---|
|  |  |

$\dfrac{1}{2}$

$m$ $m$ $m$

$m$ $m$ $m$ $m$

$-\dfrac{1}{9}$ $\dfrac{2}{5}$
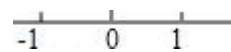
$-\dfrac{1}{5}$ $\dfrac{1}{2}$

$\dfrac{22}{7}$ $-\dfrac{3}{5}$

保存条件：

-18°C 以下

保质期：12个

中国肥牛

|  |  |
| --- | --- |
|  |  |

-2  -1  0  1  2 →

0 →

-2  -1  0  1  2

→

0 →

-1  0  1

-2 -1 0 1 2 →

-1 -2 0 1 2 →

$A$   $B$                                    $AB$ _____

-5                    2
·                     ·
A         O        B

$-2\dfrac{1}{2}$            _____

                                    $\dfrac{1}{2}$

-5 -4 -3 -2 -1 0 1 2 3 4 5
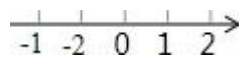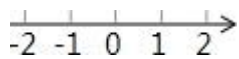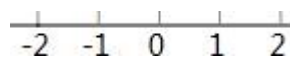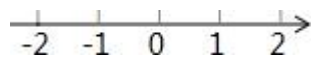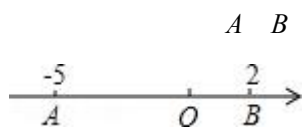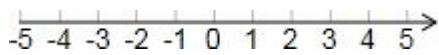
            $\dfrac{1}{2}$        $\dfrac{5}{2}$

| | |
|---|---|
| | |

$a$ $a$ $|a|$

$a$

$a$

$a$ $\quad$ $|a| = a$

$a$ $\quad$ $|a| = \ a$

$a$ $\quad$ $|a| =$

$$\frac{1}{2016}$$

$|a| = |b|$ $\quad$ $a \quad b$

$-\dfrac{1}{5}$ $\qquad$ $\dfrac{1}{5}$

$\underline{\qquad}$ $\qquad$ $\underline{\qquad}$

$\dfrac{1}{2}$ $\qquad$ $\dfrac{1}{2}$

|  |  |
|---|---|
|  |  |

$a - b = a + (-b)$

$a \quad b \quad b \quad a$

$a \quad b \quad \quad c \quad a \quad \quad b \quad c$

$\dfrac{7}{15}+\dfrac{3}{20}=$ $\qquad$ $\dfrac{3}{4}-\dfrac{1}{2}=$ $\qquad$ $\dfrac{5}{6}-\dfrac{3}{18}=$

$\dfrac{5}{6}-\dfrac{1}{4}+\dfrac{1}{3}=$ $\qquad$ $\dfrac{23}{28}+\dfrac{13}{14}+\dfrac{2}{7}=$ $\qquad$ $7-\dfrac{3}{4}-\dfrac{2}{5}=$

$-2$ $\qquad$ $-1$ $\qquad$ $0$ $\qquad$ $1$

$\dfrac{3}{4}$ $\qquad$ $\dfrac{3}{8}$ $\qquad$ $\dfrac{1}{2}$

$\dfrac{1}{8}$ $\qquad$ $\dfrac{1}{8}$ $\qquad$ $\dfrac{1}{2}$

$2\dfrac{1}{2}$ $\qquad$ $\dfrac{1}{3}$ $\qquad$ _____

_____
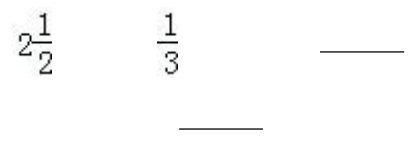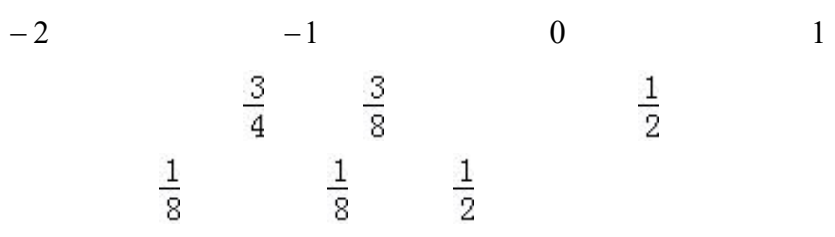
$a\ b$

$\dfrac{1}{4}$　$\dfrac{2}{3}$　$\dfrac{5}{6}+(-\dfrac{1}{4})+(-\dfrac{1}{3})$

|  |  |
|---|---|
|  |  |

$ab\ ba$

$ab\ c\ a\ bc$

$a\ b\ c\ ab\ bc$

$$\frac{4}{9} \quad \frac{4}{9} \qquad \qquad \frac{1}{6} \quad \frac{1}{9}$$

$$\frac{3}{5} \quad \frac{5}{8} \quad \frac{3}{8} \qquad \qquad \frac{2}{9} \quad \frac{3}{8} \quad \frac{6}{7}$$

∂

$$\frac{3}{5} \quad \frac{1}{6} \qquad \qquad \frac{96}{97}$$

$$\frac{4}{7} \quad \frac{8}{21} \qquad \qquad \frac{5}{8}$$

$\frac{1}{2}$

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

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

$\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{3}$ $\frac{5}{6}$

$\frac{1}{6} - \frac{1}{2}$ _____

$\frac{2}{3}$ _____

$\frac{3}{2}$ _____

$\frac{8}{25} \times 0.5 \div (-4)$

$(\frac{5}{12} + \frac{2}{3} - \frac{3}{4}) \times (-12)$        $(-\frac{3}{4}) \times (-1\frac{1}{2}) \div (-2\frac{1}{4})$

|  |  |
|---|---|
|  |  |

$n$ 　　　　$a$ 　　　$a \cdot a \cdots a$ 　　$a^n$

　　　　　　　　　　　$a^n$ 　　$a$ 　　　$n$ 　　　　$a^n$ 　　$a$ 　　$n$

$a^n$ 　　$a$ 　　$n$ 　　　　　　　　$a$ 　　$n$



$(-1)^{2016}$

$(-3)^4$ 　　$-3^4$

$$-2^8$$

$$-(-2)^3$$
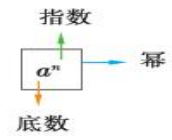
$5x + 2 = -1$     $5x = 2 - 1$     $\dfrac{y}{3} = 0$     $y = 3$

$\dfrac{x}{4} - 1 = 1$     $x = 4$     $-\dfrac{4}{5}x = 8$     $x = -10$

*a b*

*a       b          a        b          a        b*

*x                 x              x              x*

*y                 a b*

_____          _____

*x y       x       y*

*a b         a   c*                                              *b   c*

$\dfrac{1}{2}x = 1$       *x*
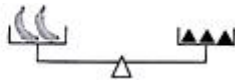


*a b       a       b*                     *x       y       x y*

*a b*     $\dfrac{a}{c^2 + 1} = \dfrac{b}{c^2 + 1}$       *x   x       x*

$ax = ay$

$x = y$                     $ax - 1 = ay - 1$       $\dfrac{ay}{3} = \dfrac{ax}{3}$                     $3 - ax = 3 - ay$

*a b       a   b*               *a b       a       b*

$\dfrac{a}{c} = \dfrac{b}{c}$       *a b*               *a   a       a*

*x               x       x   x               x*   $\dfrac{2x}{5} = 3$       *x           x*

$x$

$x$      $x$    _____

$x$     $x$   _____

$x$   $\dfrac{2}{3}$   $y$   $\dfrac{2}{3}$     $x$   _____

$\dfrac{a}{4}$     $a$   _____

$-\dfrac{x}{10} = \dfrac{y}{5}$    $x$   _____     _____

$x$   $y$    $x$   _____     _____

$\dfrac{2}{3}x$     $x$   _____     _____

$x$   $x$     $x$   _____     _____

        $x$

$x$   $x$                  $x$    $x$

|  |  |
|---|---|
| $x$     $x$   $x$ |  |

$a$   $b$         $a$     $c$   $b$      $c$

$a$   $b$         $ac$   $bc$       $a$   $b$   $c$          $\dfrac{a}{c} = \dfrac{b}{c}$.

$x$   $\dfrac{3}{10}$   $\dfrac{4}{5}$

$x$                     $x$                     $x$ $b$              $x$   $b$

              $x$   $x$                                   $x$

$x$   $y$          $x$    $x$            $\dfrac{1}{x}=2$          $x$

          $x$          $x$  $a$          $x$      $a$


     $m$        $m$                          $m$



               $x = 4$

$x-1=4$              $4x=1$            $4x-1=3x+3$              $\dfrac{1}{5}\,x-1\,=1$

          $x$   $x$

$x$                    $x$                  $x\;\dfrac{2}{9}$                  $x\;\dfrac{2}{9}$

     $x$      $x$

  $x$  $x$          $x$    $x$          $x$   $x$          $x$    $x$

       $x$      $x$

$x$          $x$            $x$          $x$

          $m$      $x$ $^m$            $x$                  $m$          _____

     $x$          $x$        $x$   $a$          $a$  _____

                    _____

     $x$          $ax$          $a$  _____

   $2x+3=x$          _____


     $x$      $x$                  $x$      $x$


| | |
|---|---|
| | |

| $x$      $x$ $x$ |  |
|---|---|

$a$   $b$      $a$    $c$  $b$     $c$

$a$   $b$        $ac$   $bc$        $a$   $b$  $c$

$$\frac{a}{c} = \frac{b}{c}$$

| 步骤 | 具体做法 | 根据 | 注意事项 |
|---|---|---|---|
| 去分母 | 方程两边同乘各分母的最小公倍数 | 等式的性质2 | （1）不要漏乘不含分母的项；（2）分数线有括号的作用，当分子是_____时，去分母时应加上括号 |
| | | | |
| | | | |
| | | | |
| | | | |

1  $x - \dfrac{5}{12} = \dfrac{3}{8}$  　　2  $x \div \dfrac{9}{10} = \dfrac{2}{3}$  　　3  $x - \dfrac{1}{3}x = 8$

4 $2 - x = \dfrac{5}{7}$  　　5  $\dfrac{1}{3}x + \dfrac{5}{6}x = 14$  　　6  $\dfrac{2}{3}x - \dfrac{1}{3} = \dfrac{5}{3}$

$(3x + 2) + 2\left[(x - 1) - (2x + 1)\right] = 6$  　　　$x$

$$\frac{x+1}{2}-\frac{2x-3}{6}=1$$

$3(x+1)-2x-3=6$ $\qquad\qquad$ $3(x+1)-2x-3=1$

$3(x+1)-(2x-3)=12$ $\qquad\qquad$ $3(x+1)-(2x-3)=6$

$x$ $\quad\dfrac{2x-1}{3}$ $\qquad\dfrac{x+1}{2}$

$18x+2(2x-1)=18-3(x+1)$ $\qquad$ $3x+(2x-1)=3-(x+1)$

$18x+(2x-1)=18-(x+1)$ $\qquad\qquad$ $3x+2(2x-1)=3-3(x+1)$

$x$

$x\qquad\quad x\qquad\qquad\qquad x\qquad\quad x$

$x\quad\dfrac{1}{2}x\qquad\qquad\dfrac{1}{7}\quad x\qquad\dfrac{1}{4}\quad x$

$$1-\frac{x+3}{6}=\frac{x}{2}$$

$x\quad\dfrac{1}{2}\qquad x\dfrac{3}{4}\qquad x\dfrac{9}{4}\qquad x$

$\dfrac{1+\square x}{3}\qquad x$

$x$

$x\qquad x$

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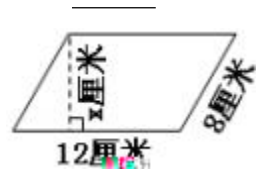
$$\frac{x+2}{2} - \frac{x+3}{3} = 1$$                    $$3 - \frac{x-1}{2} = 3x - 1$$

$x$        $x$           $x$        $$\frac{2x-a}{3} - \frac{x-a}{2} = x - 1$$                    $a$

| | |
|---|---|
| | |

$x$

$\dfrac{3}{8}$

$\dfrac{2}{3}$

$$\left( \quad = \underline{\quad} = \underline{\quad}^{-} \right)$$

$m$

$m$ $m$