

日進西中学校 第一学年 数学科

# コロナウィルス臨時休校対策

これだけはやっておこう！

## 基礎計算練習

1年( )組( )番( )

はじめに(必ず読んでください。)

このプリントは、



学校が再開したときに、みなさんが良いスタートをきれるといいな

と思い、1年数学科の先生で作成したプリントです。

2種類あります。

① これだけはやっておこう！基礎計算練習 1～14ページ

小学校の計算の復習プリントです。

分数の計算は、中学校でもたくさん行います。

今のうちに練習をしておいてください。

解答は後ろについています。すべて答え合わせをしましょう。

② 中学校の数学 予習プリント 1～8ページ

中学の数学の予習プリントです。

指定された教科書のページを開き、読みます。

教科書を見ながら、プリントの問題を解きましょう。

1ページ解いたら、後ろについている解答を見て答え合わせをしましょう。

**注意**

「中学校の数学 予習プリント」の内容は、  
学校が再開されたら必ず授業でもう1度学習します。

そのため

分からなかったところは空らのままでかまいません。

授業と一緒に勉強しましょう(^^)

○ 次の計算をしましょう。

$\frac{3}{4} \times \frac{3}{7} = \underline{\hspace{2cm}}$ $\frac{2}{3} \times \frac{4}{5} = \underline{\hspace{2cm}}$ $\frac{4}{5} \times \frac{7}{9} = \underline{\hspace{2cm}}$ $\frac{2}{3} \times \frac{8}{5} = \underline{\hspace{2cm}}$ $\frac{4}{5} \times \frac{2}{3} = \underline{\hspace{2cm}}$ $\frac{5}{6} \times \frac{1}{4} = \underline{\hspace{2cm}}$ $\frac{1}{2} \times \frac{3}{4} = \underline{\hspace{2cm}}$ $\frac{3}{7} \times \frac{2}{5} = \underline{\hspace{2cm}}$ $\frac{7}{5} \times \frac{3}{8} = \underline{\hspace{2cm}}$	$\frac{1}{4} \times \frac{5}{6} = \underline{\hspace{2cm}}$ $\frac{3}{8} \times \frac{3}{5} = \underline{\hspace{2cm}}$ $\frac{4}{7} \times \frac{2}{5} = \underline{\hspace{2cm}}$ $\frac{1}{3} \times \frac{5}{6} = \underline{\hspace{2cm}}$ $\frac{1}{5} \times \frac{2}{3} = \underline{\hspace{2cm}}$ $\frac{5}{6} \times \frac{5}{7} = \underline{\hspace{2cm}}$ $\frac{5}{7} \times \frac{3}{4} = \underline{\hspace{2cm}}$ $\frac{2}{3} \times \frac{4}{5} = \underline{\hspace{2cm}}$ $\frac{3}{4} \times \frac{5}{8} = \underline{\hspace{2cm}}$	$\frac{1}{2} \times \frac{3}{4} = \underline{\hspace{2cm}}$ $\frac{5}{7} \times \frac{3}{4} = \underline{\hspace{2cm}}$ $\frac{1}{2} \times \frac{5}{7} = \underline{\hspace{2cm}}$ $\frac{3}{5} \times \frac{3}{7} = \underline{\hspace{2cm}}$ $\frac{1}{4} \times \frac{3}{8} = \underline{\hspace{2cm}}$ $\frac{4}{5} \times \frac{2}{3} = \underline{\hspace{2cm}}$ $\frac{2}{9} \times \frac{2}{3} = \underline{\hspace{2cm}}$ $\frac{2}{3} \times \frac{5}{11} = \underline{\hspace{2cm}}$ $\frac{1}{2} \times \frac{1}{3} = \underline{\hspace{2cm}}$
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○ 次の計算をしましょう。

$$2 \frac{3}{4} \times \frac{3}{7} = \underline{\quad} \times \underline{\quad} =$$

$$2 \frac{2}{3} \times \frac{4}{5} = \underline{\quad} \times \underline{\quad} =$$

$$2 \frac{4}{5} \times \frac{7}{9} = \underline{\quad} \times \underline{\quad} =$$

$$2 \frac{2}{3} \times 1 \frac{8}{5} = \underline{\quad} \times \underline{\quad} =$$

$$1 \frac{1}{4} \times 2 \frac{5}{6} = \underline{\quad} \times \underline{\quad} =$$

$$1 \frac{1}{2} \times 1 \frac{3}{4} = \underline{\quad} \times \underline{\quad} =$$

$\begin{array}{c} + \\ \rightarrow \\ \circlearrowleft \end{array} \frac{\square}{\triangle} = \frac{0 \times \triangle}{\triangle} + \frac{\square}{\triangle}$ 
 かけてたすの繰り返し

○ 次の計算をしましょう。

$\frac{2}{3} \times \frac{1}{4} = \frac{\quad}{\quad}$	$\frac{5}{6} \times \frac{1}{10} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{5}{6} = \frac{\quad}{\quad}$
$\frac{2}{7} \times \frac{1}{4} = \frac{\quad}{\quad}$	$\frac{2}{5} \times \frac{1}{2} = \frac{\quad}{\quad}$	$\frac{3}{8} \times \frac{1}{6} = \frac{\quad}{\quad}$
$\frac{2}{3} \times \frac{1}{6} = \frac{\quad}{\quad}$	$\frac{5}{6} \times \frac{7}{10} = \frac{\quad}{\quad}$	$\frac{2}{5} \times \frac{1}{4} = \frac{\quad}{\quad}$
$\frac{3}{4} \times \frac{1}{9} = \frac{\quad}{\quad}$	$\frac{3}{7} \times \frac{5}{6} = \frac{\quad}{\quad}$	$\frac{5}{8} \times \frac{3}{5} = \frac{\quad}{\quad}$
$\frac{3}{5} \times \frac{2}{3} = \frac{\quad}{\quad}$	$\frac{4}{9} \times \frac{1}{6} = \frac{\quad}{\quad}$	$\frac{5}{6} \times \frac{1}{5} = \frac{\quad}{\quad}$
$\frac{5}{9} \times \frac{7}{10} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{1}{6} = \frac{\quad}{\quad}$	$\frac{4}{7} \times \frac{5}{6} = \frac{\quad}{\quad}$
$\frac{7}{9} \times \frac{5}{14} = \frac{\quad}{\quad}$	$\frac{2}{7} \times \frac{5}{12} = \frac{\quad}{\quad}$	$\frac{2}{7} \times \frac{3}{14} = \frac{\quad}{\quad}$
$\frac{8}{9} \times \frac{5}{24} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{7}{18} = \frac{\quad}{\quad}$	$\frac{8}{5} \times \frac{3}{16} = \frac{\quad}{\quad}$
$\frac{5}{8} \times \frac{3}{5} = \frac{\quad}{\quad}$	$\frac{3}{8} \times \frac{5}{9} = \frac{\quad}{\quad}$	$\frac{8}{9} \times \frac{5}{12} = \frac{\quad}{\quad}$

★ 2 や 3 や 5 で割る計算ができれば大丈夫!!

○ 次の計算をしましょう。

$\frac{2}{3} \times \frac{3}{5} = \frac{\quad}{\quad}$	$\frac{1}{2} \times \frac{4}{7} = \frac{\quad}{\quad}$	$\frac{1}{4} \times \frac{2}{5} = \frac{\quad}{\quad}$
$\frac{5}{6} \times \frac{2}{3} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{2}{7} = \frac{\quad}{\quad}$	$\frac{3}{8} \times \frac{4}{7} = \frac{\quad}{\quad}$
$\frac{5}{6} \times \frac{3}{4} = \frac{\quad}{\quad}$	$\frac{5}{6} \times \frac{3}{7} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{6}{7} = \frac{\quad}{\quad}$
$\frac{1}{5} \times \frac{5}{6} = \frac{\quad}{\quad}$	$\frac{1}{2} \times \frac{2}{9} = \frac{\quad}{\quad}$	$\frac{3}{10} \times \frac{5}{7} = \frac{\quad}{\quad}$
$\frac{1}{6} \times \frac{3}{4} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{6}{11} = \frac{\quad}{\quad}$	$\frac{3}{7} \times \frac{7}{10} = \frac{\quad}{\quad}$
$\frac{5}{8} \times \frac{2}{3} = \frac{\quad}{\quad}$	$\frac{3}{4} \times \frac{2}{7} = \frac{\quad}{\quad}$	$\frac{5}{6} \times \frac{8}{9} = \frac{\quad}{\quad}$
$\frac{5}{9} \times \frac{3}{8} = \frac{\quad}{\quad}$	$\frac{5}{12} \times \frac{4}{7} = \frac{\quad}{\quad}$	$\frac{3}{8} \times \frac{2}{5} = \frac{\quad}{\quad}$
$\frac{4}{15} \times \frac{10}{11} = \frac{\quad}{\quad}$	$\frac{5}{24} \times \frac{8}{9} = \frac{\quad}{\quad}$	$\frac{5}{22} \times \frac{11}{9} = \frac{\quad}{\quad}$
$\frac{5}{16} \times \frac{4}{7} = \frac{\quad}{\quad}$	$\frac{4}{21} \times \frac{7}{9} = \frac{\quad}{\quad}$	$\frac{1}{5} \times \frac{5}{6} = \frac{\quad}{\quad}$

★ 約分は斜めのペアで!!

○ 次の計算をしましょう。

$\frac{2}{3} \times \frac{3}{4} = \underline{\quad}$	$\frac{5}{6} \times \frac{2}{5} = \underline{\quad}$	$\frac{3}{4} \times \frac{2}{9} = \underline{\quad}$
$\frac{2}{7} \times \frac{7}{8} = \underline{\quad}$	$\frac{2}{5} \times \frac{5}{6} = \underline{\quad}$	$\frac{5}{8} \times \frac{2}{5} = \underline{\quad}$
$\frac{5}{7} \times \frac{7}{10} = \underline{\quad}$	$\frac{2}{9} \times \frac{3}{4} = \underline{\quad}$	$\frac{5}{6} \times \frac{3}{5} = \underline{\quad}$
$\frac{3}{10} \times \frac{2}{3} = \underline{\quad}$	$\frac{4}{5} \times \frac{5}{8} = \underline{\quad}$	$\frac{9}{10} \times \frac{5}{6} = \underline{\quad}$
$\frac{3}{4} \times \frac{8}{9} = \underline{\quad}$	$\frac{7}{8} \times \frac{4}{21} = \underline{\quad}$	$\frac{5}{12} \times \frac{4}{5} = \underline{\quad}$
$\frac{5}{14} \times \frac{7}{10} = \underline{\quad}$	$\frac{3}{10} \times \frac{5}{9} = \underline{\quad}$	$\frac{7}{15} \times \frac{5}{21} = \underline{\quad}$
$\frac{9}{16} \times \frac{10}{27} = \underline{\quad}$	$\frac{25}{28} \times \frac{14}{15} = \underline{\quad}$	$\frac{5}{21} \times \frac{9}{10} = \underline{\quad}$
$\frac{5}{32} \times \frac{8}{15} = \underline{\quad}$	$\frac{11}{26} \times \frac{13}{33} = \underline{\quad}$	$\frac{5}{6} \times \frac{2}{5} = \underline{\quad}$
$\frac{6}{5} \times \frac{25}{9} = \underline{\quad}$	$\frac{3}{5} \times \frac{5}{21} = \underline{\quad}$	$\frac{25}{18} \times \frac{27}{40} = \underline{\quad}$

★ 残った数を忘れずに。最後は九九でOK!!

○ 次の計算をしましょう。

$$\frac{3}{5} \div \frac{1}{6} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{4}{7} \div \frac{1}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{1}{4} \div \frac{1}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{8} \div \frac{1}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{7} \div \frac{1}{4} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{9} \div \frac{1}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{7}{8} \div \frac{1}{4} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{9} \div \frac{1}{6} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{9}{4} \div \frac{1}{8} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} =$$

★ 分子が1の割り算は、分母(整数)をかけるだけ!!

○ 次の計算をしましょう。

$$\frac{1}{6} \div \frac{2}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{1}{4} \div \frac{3}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{5} \div \frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{2}{9} \div \frac{3}{8} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{7} \div \frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{9} \div \frac{3}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{6} \div \frac{3}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{9} \div \frac{6}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{4} \div \frac{5}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

★ “逆数にしてかける” つまり (分数) × (分数) だね!!

○ 次の計算をしましょう。

$$\frac{4}{9} \div \frac{6}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{8}{15} \div \frac{4}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{4}{7} \div \frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{5} \div \frac{9}{11} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{4} \div \frac{1}{8} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{7}{20} \div \frac{5}{12} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{12} \div \frac{3}{8} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{14} \div \frac{2}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{8} \div \frac{5}{6} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

★ 逆数のかけ算で、約分1回の問題でした。

○ 次の計算をしましょう。

$$\frac{5}{8} \div \frac{15}{16} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{7}{12} \div \frac{14}{15} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{5} \div \frac{6}{15} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{8} \div \frac{9}{10} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{6} \div \frac{5}{16} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{7}{9} \div \frac{14}{27} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{2}{25} \div \frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{10}{21} \div \frac{5}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{2}{5} \div \frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

★ P.5 のかけ算ができれば大丈夫!!

○ 次の計算をしましょう。

$$4 \frac{1}{3} \div 1 \frac{4}{9} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} =$$

$$2 \frac{5}{6} \div 4 \frac{1}{4} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$2 \frac{3}{4} \div 8 \frac{1}{4} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$3 \frac{1}{7} \div 2 \frac{5}{14} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$4 \frac{1}{2} \div 3 \frac{1}{2} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$1 \frac{3}{5} \div 2 \frac{2}{15} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$1 \frac{2}{7} \div 1 \frac{28}{35} = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

○ 次の計算をしましょう。

$$\frac{3}{10} \div \frac{7}{8} \times \frac{7}{9} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{3}{5} \times \frac{7}{12} \div \frac{14}{15} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{5}{12} \div \frac{8}{3} \div \frac{15}{8} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$0.6 \times \frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

ヒント

$0.6 = \frac{6}{10} = \frac{3}{5}$ $0.8 = \frac{8}{10} = \frac{4}{5}$
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$$\frac{4}{7} \div 0.8 = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$4 \frac{1}{6} \div 1.5 = \frac{\quad}{\quad} \div \frac{\quad}{\quad} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{6}{7} \times \left( \frac{5}{6} - \frac{1}{3} \right) = \frac{6}{7} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$\frac{4}{5} \times \left( \frac{3}{8} + \frac{1}{6} \right) = \frac{4}{5} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

★ 0.2の倍数は  $\frac{\textcircled{1}}{5}$ , 0.5の倍数は  $\frac{\textcircled{1}}{2}$  となるよ。

○ 左から右が「かけ算」

- (1)  $3 : 7 = 9 : \underline{\hspace{1cm}}$  (2)  $5 : 9 = 25 : \underline{\hspace{1cm}}$  (3)  $2 : 5 = \underline{\hspace{1cm}} : 10$   
 (4)  $5 : 8 = \underline{\hspace{1cm}} : 64$  (5)  $3 : 8 = \underline{\hspace{1cm}} : 48$  (6)  $9 : 7 = \underline{\hspace{1cm}} : 49$   
 (7)  $6 : 7 = 36 : \underline{\hspace{1cm}}$  (8)  $3 : 10 = 9 : \underline{\hspace{1cm}}$  (9)  $5 : 9 = \underline{\hspace{1cm}} : 45$   
 (10)  $2 : 7 = \underline{\hspace{1cm}} : 56$  (11)  $2 : 3 = 4 : \underline{\hspace{1cm}}$  (12)  $2 : 5 = 4 : \underline{\hspace{1cm}}$   
 (13)  $2 : 3 = 6 : \underline{\hspace{1cm}}$  (14)  $2 : 5 = 8 : \underline{\hspace{1cm}}$  (15)  $3 : 7 = 9 : \underline{\hspace{1cm}}$   
 (16)  $8 : 9 = 64 : \underline{\hspace{1cm}}$  (17)  $4 : 5 = \underline{\hspace{1cm}} : 25$  (18)  $6 : 8 = \underline{\hspace{1cm}} : 56$   
 (19)  $9 : 3 = \underline{\hspace{1cm}} : 21$  (20)  $3 : 4 = \underline{\hspace{1cm}} : 36$

○ 左から右が「わり算」

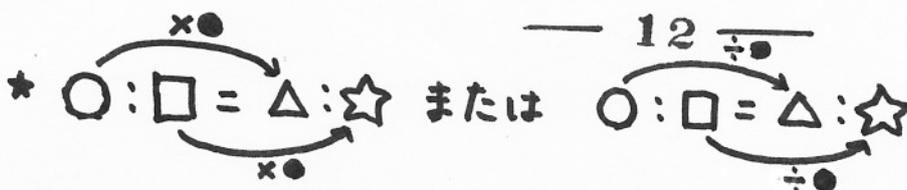
- (1)  $10 : 5 = 2 : \underline{\hspace{1cm}}$  (2)  $18 : 24 = 3 : \underline{\hspace{1cm}}$  (3)  $9 : 6 = 3 : \underline{\hspace{1cm}}$   
 (4)  $4 : 12 = 1 : \underline{\hspace{1cm}}$  (5)  $15 : 45 = 3 : \underline{\hspace{1cm}}$  (6)  $18 : 24 = 3 : \underline{\hspace{1cm}}$   
 (7)  $12 : 8 = \underline{\hspace{1cm}} : 4$  (8)  $56 : 72 = \underline{\hspace{1cm}} : 9$  (9)  $81 : 27 = \underline{\hspace{1cm}} : 3$   
 (10)  $49 : 14 = \underline{\hspace{1cm}} : 2$

○ 整数ではない等しい比

- (1)  $2.1 : 3.5 = 21 : \underline{\hspace{1cm}}$  (2)  $1.5 : 2.5 = \underline{\hspace{1cm}} : 5$

(3)  $\frac{2}{9} : \frac{5}{9} = 2 : \underline{\hspace{1cm}}$  (4)  $\frac{2}{3} : \frac{1}{6} = \underline{\hspace{1cm}} : 1$

(5)  $\frac{3}{4} : \frac{5}{6} = 9 : \underline{\hspace{1cm}}$



同じ数でかけるか。  
 同じ数でわります。

○ ただ分母どうしかけて通分し、約分がない問題

$$(1) \frac{1}{3} + \frac{2}{5} = \frac{\quad}{\quad} \quad (2) \frac{2}{3} + \frac{1}{4} = \frac{\quad}{\quad}$$

$$(3) \frac{2}{7} + \frac{3}{5} = \frac{\quad}{\quad} \quad (4) \frac{1}{6} + \frac{2}{5} = \frac{\quad}{\quad}$$

$$(5) \frac{5}{4} + \frac{4}{5} = \frac{\quad}{\quad} \quad (6) \frac{1}{3} - \frac{1}{7} = \frac{\quad}{\quad}$$

$$(7) \frac{4}{5} - \frac{1}{2} = \frac{\quad}{\quad} \quad (8) \frac{3}{4} - \frac{1}{3} = \frac{\quad}{\quad}$$

$$(9) \frac{1}{3} - \frac{2}{7} = \frac{\quad}{\quad} \quad (10) \frac{4}{5} - \frac{2}{3} = \frac{\quad}{\quad}$$

○ 分母の一方に合わせて通分し、約分がない問題

$$(1) \frac{1}{4} + \frac{1}{2} = \frac{\quad}{\quad} \quad (2) \frac{3}{4} + \frac{1}{8} = \frac{\quad}{\quad}$$

$$(3) \frac{1}{5} + \frac{1}{15} = \frac{\quad}{\quad} \quad (4) \frac{11}{14} + \frac{3}{7} = \frac{\quad}{\quad}$$

$$(5) \frac{13}{16} + \frac{3}{8} = \frac{\quad}{\quad} \quad (6) \frac{7}{8} - \frac{1}{4} = \frac{\quad}{\quad}$$

$$(7) \frac{3}{10} - \frac{1}{5} = \frac{\quad}{\quad} \quad (8) \frac{7}{9} - \frac{1}{18} = \frac{\quad}{\quad}$$

$$(9) \frac{5}{6} - \frac{5}{12} = \frac{\quad}{\quad} \quad (10) \frac{8}{9} - \frac{2}{3} = \frac{\quad}{\quad}$$

○ 通分し、約分がない問題

(1)  $\frac{3}{4} + \frac{1}{6} = \underline{\quad}$  (2)  $\frac{1}{6} + \frac{2}{9} = \underline{\quad}$

(3)  $\frac{5}{8} + \frac{1}{6} = \underline{\quad}$  (4)  $\frac{3}{10} + \frac{1}{8} = \underline{\quad}$

(5)  $\frac{7}{12} + \frac{3}{8} = \underline{\quad}$  (6)  $\frac{11}{12} - \frac{3}{8} = \underline{\quad}$

(7)  $\frac{3}{8} - \frac{1}{6} = \underline{\quad}$  (8)  $\frac{5}{6} - \frac{1}{4} = \underline{\quad}$

(9)  $\frac{5}{12} - \frac{1}{8} = \underline{\quad}$  (10)  $\frac{14}{15} - \frac{3}{10} = \underline{\quad}$

○ 通分し、最後に約分する問題

(1)  $\frac{3}{10} + \frac{1}{6} = \underline{\quad}$  (2)  $\frac{3}{20} + \frac{13}{30} = \underline{\quad}$

(3)  $\frac{5}{24} + \frac{3}{8} = \underline{\quad}$  (4)  $\frac{14}{15} + \frac{9}{10} = \underline{\quad}$

(5)  $\frac{4}{15} + \frac{13}{20} = \underline{\quad}$  (6)  $\frac{4}{5} - \frac{3}{10} = \underline{\quad}$

(7)  $\frac{3}{4} - \frac{7}{12} = \underline{\quad}$  (8)  $\frac{18}{7} - \frac{19}{21} = \underline{\quad}$

(9)  $\frac{17}{15} - \frac{3}{10} = \underline{\quad}$  (10)  $\frac{5}{6} - \frac{8}{15} = \underline{\quad}$

# 解答

○ 次の計算をしましょう。

$$\frac{3}{4} \times \frac{3}{7} = \frac{9}{28} \quad \frac{1}{4} \times \frac{5}{6} = \frac{5}{24} \quad \frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$$

$$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15} \quad \frac{3}{8} \times \frac{3}{5} = \frac{9}{40} \quad \frac{5}{7} \times \frac{3}{4} = \frac{15}{28}$$

$$\frac{4}{5} \times \frac{7}{9} = \frac{28}{45} \quad \frac{4}{7} \times \frac{2}{5} = \frac{8}{35} \quad \frac{1}{2} \times \frac{5}{7} = \frac{5}{14}$$

$$\frac{2}{3} \times \frac{8}{5} = \frac{16}{15} \quad \frac{1}{3} \times \frac{5}{6} = \frac{5}{18} \quad \frac{3}{5} \times \frac{3}{7} = \frac{9}{35}$$

$$\frac{4}{5} \times \frac{2}{3} = \frac{8}{15} \quad \frac{1}{5} \times \frac{2}{3} = \frac{2}{15} \quad \frac{1}{4} \times \frac{3}{8} = \frac{3}{32}$$

$$\frac{5}{6} \times \frac{1}{4} = \frac{5}{24} \quad \frac{5}{6} \times \frac{5}{7} = \frac{25}{42} \quad \frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$$

$$\frac{1}{2} \times \frac{3}{4} = \frac{3}{8} \quad \frac{5}{7} \times \frac{3}{4} = \frac{15}{28} \quad \frac{2}{9} \times \frac{2}{3} = \frac{4}{27}$$

$$\frac{3}{7} \times \frac{2}{5} = \frac{6}{35} \quad \frac{2}{3} \times \frac{4}{5} = \frac{8}{15} \quad \frac{2}{3} \times \frac{5}{11} = \frac{10}{33}$$

$$\frac{7}{5} \times \frac{3}{8} = \frac{21}{40} \quad \frac{3}{4} \times \frac{5}{8} = \frac{15}{32} \quad \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

○ 次の計算をしましょう。

$$2\frac{3}{4} = 2 + \frac{3}{4} = \frac{8}{4} + \frac{3}{4} = \frac{11}{4}$$

$$2\frac{3}{4} \times \frac{3}{7} = \frac{11}{4} \times \frac{3}{7} = \frac{33}{28} \quad \left(1\frac{5}{28}\right)$$

$$2\frac{2}{3} \times \frac{4}{5} = \frac{8}{3} \times \frac{4}{5} = \frac{32}{15} \quad \left(2\frac{2}{15}\right)$$

$$2\frac{4}{5} \times \frac{7}{9} = \frac{14}{5} \times \frac{7}{9} = \frac{98}{45} \quad \left(2\frac{8}{45}\right)$$

$$2\frac{2}{3} \times 1\frac{8}{5} = \frac{8}{3} \times \frac{13}{5} = \frac{104}{15} \quad \left(6\frac{14}{15}\right)$$

$$1\frac{1}{4} \times 2\frac{5}{6} = \frac{5}{4} \times \frac{17}{6} = \frac{85}{24} \quad \left(3\frac{13}{24}\right)$$

$$1\frac{1}{2} \times 1\frac{3}{4} = \frac{3}{2} \times \frac{7}{4} = \frac{21}{8} \quad \left(2\frac{5}{8}\right)$$

\* 中学では、基本的に仮分数で答えるようになります。

○ 次の計算をしましょう。

$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6} \quad \frac{1}{6} \times \frac{1}{1} = \frac{1}{6} \quad \frac{1}{4} \times \frac{5}{2} = \frac{5}{8}$$

$$\frac{1}{7} \times \frac{1}{2} = \frac{1}{14} \quad \frac{1}{5} \times \frac{1}{1} = \frac{1}{5} \quad \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$$

$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6} \quad \frac{1}{6} \times \frac{7}{1} = \frac{7}{6} \quad \frac{7}{12} \times \frac{1}{5} = \frac{7}{60}$$

$$\frac{1}{4} \times \frac{1}{3} = \frac{1}{12} \quad \frac{1}{7} \times \frac{5}{2} = \frac{5}{14} \quad \frac{5}{14} \times \frac{3}{1} = \frac{3}{14}$$

$$\frac{1}{5} \times \frac{2}{1} = \frac{2}{5} \quad \frac{2}{9} \times \frac{1}{3} = \frac{2}{27} \quad \frac{2}{6} \times \frac{1}{1} = \frac{1}{3}$$

$$\frac{1}{9} \times \frac{7}{2} = \frac{7}{18} \quad \frac{1}{4} \times \frac{1}{2} = \frac{1}{8} \quad \frac{1}{7} \times \frac{5}{2} = \frac{5}{14}$$

$$\frac{1}{9} \times \frac{5}{2} = \frac{5}{18} \quad \frac{5}{7} \times \frac{5}{6} = \frac{25}{42} \quad \frac{5}{7} \times \frac{3}{1} = \frac{3}{7}$$

$$\frac{1}{9} \times \frac{5}{3} = \frac{5}{27} \quad \frac{5}{4} \times \frac{7}{6} = \frac{35}{24} \quad \frac{3}{5} \times \frac{3}{1} = \frac{3}{5}$$

$$\frac{1}{8} \times \frac{3}{1} = \frac{3}{8} \quad \frac{5}{8} \times \frac{5}{24} = \frac{5}{48} \quad \frac{5}{9} \times \frac{5}{1} = \frac{5}{9}$$

○ 次の計算をしましょう。

$$\frac{2}{5} \times \frac{1}{1} = \frac{2}{5} \quad \frac{1}{7} \times \frac{2}{1} = \frac{2}{7} \quad \frac{2}{7} \times \frac{1}{5} = \frac{2}{35}$$

$$\frac{5}{3} \times \frac{1}{3} = \frac{5}{9} \quad \frac{3}{2} \times \frac{1}{7} = \frac{3}{14} \quad \frac{3}{14} \times \frac{1}{7} = \frac{3}{98}$$

$$\frac{5}{2} \times \frac{1}{4} = \frac{5}{8} \quad \frac{5}{2} \times \frac{1}{7} = \frac{5}{14} \quad \frac{5}{14} \times \frac{3}{7} = \frac{15}{98}$$

$$\frac{1}{1} \times \frac{1}{6} = \frac{1}{6} \quad \frac{1}{6} \times \frac{1}{9} = \frac{1}{54} \quad \frac{1}{9} \times \frac{3}{7} = \frac{1}{21}$$

$$\frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \quad \frac{3}{8} \times \frac{3}{11} = \frac{9}{88} \quad \frac{9}{22} \times \frac{1}{10} = \frac{9}{220}$$

$$\frac{5}{4} \times \frac{1}{3} = \frac{5}{12} \quad \frac{5}{12} \times \frac{1}{7} = \frac{5}{84} \quad \frac{3}{14} \times \frac{5}{9} = \frac{15}{126}$$

$$\frac{5}{3} \times \frac{1}{8} = \frac{5}{24} \quad \frac{5}{24} \times \frac{1}{7} = \frac{5}{168} \quad \frac{5}{21} \times \frac{3}{5} = \frac{1}{7}$$

$$\frac{4}{3} \times \frac{1}{5} = \frac{4}{15} \quad \frac{8}{11} \times \frac{5}{3} = \frac{40}{33} \quad \frac{5}{27} \times \frac{5}{9} = \frac{25}{243}$$

$$\frac{5}{4} \times \frac{1}{7} = \frac{5}{28} \quad \frac{4}{28} \times \frac{1}{9} = \frac{1}{63} \quad \frac{4}{27} \times \frac{1}{6} = \frac{4}{162}$$

○ 次の計算をしましょう。

$$\frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$\frac{1}{3} \times \frac{1}{3} = \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$

$$\frac{1}{4} \times \frac{1}{4} = \frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$$

$$\frac{1}{5} \times \frac{1}{5} = \frac{1}{5} \times \frac{1}{5} = \frac{1}{25}$$

$$\frac{1}{6} \times \frac{1}{6} = \frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$$

$$\frac{1}{7} \times \frac{1}{7} = \frac{1}{7} \times \frac{1}{7} = \frac{1}{49}$$

$$\frac{1}{8} \times \frac{1}{8} = \frac{1}{8} \times \frac{1}{8} = \frac{1}{64}$$

$$\frac{1}{9} \times \frac{1}{9} = \frac{1}{9} \times \frac{1}{9} = \frac{1}{81}$$

$$\frac{1}{10} \times \frac{1}{10} = \frac{1}{10} \times \frac{1}{10} = \frac{1}{100}$$

$$\frac{1}{11} \times \frac{1}{11} = \frac{1}{11} \times \frac{1}{11} = \frac{1}{121}$$

$$\frac{1}{12} \times \frac{1}{12} = \frac{1}{12} \times \frac{1}{12} = \frac{1}{144}$$

$$\frac{1}{13} \times \frac{1}{13} = \frac{1}{13} \times \frac{1}{13} = \frac{1}{169}$$

$$\frac{1}{14} \times \frac{1}{14} = \frac{1}{14} \times \frac{1}{14} = \frac{1}{196}$$

$$\frac{1}{15} \times \frac{1}{15} = \frac{1}{15} \times \frac{1}{15} = \frac{1}{225}$$

$$\frac{1}{16} \times \frac{1}{16} = \frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$$

$$\frac{1}{17} \times \frac{1}{17} = \frac{1}{17} \times \frac{1}{17} = \frac{1}{289}$$

$$\frac{1}{18} \times \frac{1}{18} = \frac{1}{18} \times \frac{1}{18} = \frac{1}{324}$$

$$\frac{1}{19} \times \frac{1}{19} = \frac{1}{19} \times \frac{1}{19} = \frac{1}{361}$$

$$\frac{1}{20} \times \frac{1}{20} = \frac{1}{20} \times \frac{1}{20} = \frac{1}{400}$$

$$\frac{1}{21} \times \frac{1}{21} = \frac{1}{21} \times \frac{1}{21} = \frac{1}{441}$$

$$\frac{1}{22} \times \frac{1}{22} = \frac{1}{22} \times \frac{1}{22} = \frac{1}{484}$$

$$\frac{1}{23} \times \frac{1}{23} = \frac{1}{23} \times \frac{1}{23} = \frac{1}{529}$$

$$\frac{1}{24} \times \frac{1}{24} = \frac{1}{24} \times \frac{1}{24} = \frac{1}{576}$$

$$\frac{1}{25} \times \frac{1}{25} = \frac{1}{25} \times \frac{1}{25} = \frac{1}{625}$$

$$\frac{1}{26} \times \frac{1}{26} = \frac{1}{26} \times \frac{1}{26} = \frac{1}{676}$$

$$\frac{1}{27} \times \frac{1}{27} = \frac{1}{27} \times \frac{1}{27} = \frac{1}{729}$$

$$\frac{1}{28} \times \frac{1}{28} = \frac{1}{28} \times \frac{1}{28} = \frac{1}{784}$$

$$\frac{1}{29} \times \frac{1}{29} = \frac{1}{29} \times \frac{1}{29} = \frac{1}{841}$$

$$\frac{1}{30} \times \frac{1}{30} = \frac{1}{30} \times \frac{1}{30} = \frac{1}{900}$$

$$\frac{1}{31} \times \frac{1}{31} = \frac{1}{31} \times \frac{1}{31} = \frac{1}{961}$$

$$\frac{1}{32} \times \frac{1}{32} = \frac{1}{32} \times \frac{1}{32} = \frac{1}{1024}$$

$$\frac{1}{33} \times \frac{1}{33} = \frac{1}{33} \times \frac{1}{33} = \frac{1}{1089}$$

$$\frac{1}{34} \times \frac{1}{34} = \frac{1}{34} \times \frac{1}{34} = \frac{1}{1156}$$

$$\frac{1}{35} \times \frac{1}{35} = \frac{1}{35} \times \frac{1}{35} = \frac{1}{1225}$$

$$\frac{1}{36} \times \frac{1}{36} = \frac{1}{36} \times \frac{1}{36} = \frac{1}{1296}$$

$$\frac{1}{37} \times \frac{1}{37} = \frac{1}{37} \times \frac{1}{37} = \frac{1}{1369}$$

$$\frac{1}{38} \times \frac{1}{38} = \frac{1}{38} \times \frac{1}{38} = \frac{1}{1444}$$

$$\frac{1}{39} \times \frac{1}{39} = \frac{1}{39} \times \frac{1}{39} = \frac{1}{1521}$$

$$\frac{1}{40} \times \frac{1}{40} = \frac{1}{40} \times \frac{1}{40} = \frac{1}{1600}$$

$$\frac{1}{41} \times \frac{1}{41} = \frac{1}{41} \times \frac{1}{41} = \frac{1}{1681}$$

$$\frac{1}{42} \times \frac{1}{42} = \frac{1}{42} \times \frac{1}{42} = \frac{1}{1764}$$

$$\frac{1}{43} \times \frac{1}{43} = \frac{1}{43} \times \frac{1}{43} = \frac{1}{1849}$$

$$\frac{1}{44} \times \frac{1}{44} = \frac{1}{44} \times \frac{1}{44} = \frac{1}{1936}$$

$$\frac{1}{45} \times \frac{1}{45} = \frac{1}{45} \times \frac{1}{45} = \frac{1}{2025}$$

$$\frac{1}{46} \times \frac{1}{46} = \frac{1}{46} \times \frac{1}{46} = \frac{1}{2116}$$

$$\frac{1}{47} \times \frac{1}{47} = \frac{1}{47} \times \frac{1}{47} = \frac{1}{2209}$$

$$\frac{1}{48} \times \frac{1}{48} = \frac{1}{48} \times \frac{1}{48} = \frac{1}{2304}$$

$$\frac{1}{49} \times \frac{1}{49} = \frac{1}{49} \times \frac{1}{49} = \frac{1}{2401}$$

$$\frac{1}{50} \times \frac{1}{50} = \frac{1}{50} \times \frac{1}{50} = \frac{1}{2500}$$

○ 次の計算をしましょう。

$$\frac{3}{5} \div \frac{1}{6} = \frac{3}{5} \times 6 = \frac{18}{5}$$

$$\frac{4}{7} \div \frac{1}{3} = \frac{4}{7} \times 3 = \frac{12}{7}$$

$$\frac{1}{4} \div \frac{1}{7} = \frac{1}{4} \times 7 = \frac{7}{4}$$

$$\frac{3}{8} \div \frac{1}{5} = \frac{3}{8} \times 5 = \frac{15}{8}$$

$$\frac{3}{7} \div \frac{1}{4} = \frac{3}{7} \times 4 = \frac{12}{7}$$

$$\frac{5}{9} \div \frac{1}{3} = \frac{5}{9} \times 3 = \frac{5}{3}$$

$$\frac{7}{8} \div \frac{1}{4} = \frac{7}{8} \times 4 = \frac{7}{2}$$

$$\frac{5}{9} \div \frac{1}{6} = \frac{5}{9} \times 6 = \frac{10}{3}$$

$$\frac{9}{4} \div \frac{1}{8} = \frac{9}{4} \times 8 = \frac{18}{1} = 18$$

注意!!

○ 次の計算をしましょう。

$\div \frac{a}{b} \Rightarrow \times \frac{b}{a}$

$$\frac{1}{6} \div \frac{2}{5} = \frac{1}{6} \times \frac{5}{2} = \frac{5}{12}$$

$$\frac{1}{4} \div \frac{3}{5} = \frac{1}{4} \times \frac{5}{3} = \frac{5}{12}$$

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

$$\frac{2}{9} \div \frac{3}{8} = \frac{2}{9} \times \frac{8}{3} = \frac{16}{27}$$

$$\frac{3}{7} \div \frac{4}{5} = \frac{3}{7} \times \frac{5}{4} = \frac{15}{28}$$

$$\frac{5}{9} \div \frac{3}{5} = \frac{5}{9} \times \frac{5}{3} = \frac{25}{27}$$

$$\frac{5}{6} \div \frac{3}{7} = \frac{5}{6} \times \frac{7}{3} = \frac{35}{18}$$

$$\frac{5}{9} \div \frac{6}{7} = \frac{5}{9} \times \frac{7}{6} = \frac{35}{54}$$

$$\frac{3}{4} \div \frac{5}{7} = \frac{3}{4} \times \frac{7}{5} = \frac{21}{20}$$

○ 次の計算をしましょう。

$$\frac{4}{9} \div \frac{6}{7} = \frac{4}{9} \times \frac{7}{6} = \frac{14}{27}$$

$$\frac{8}{15} \div \frac{4}{7} = \frac{8}{15} \times \frac{7}{4} = \frac{14}{15}$$

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

$$\frac{3}{5} \div \frac{9}{11} = \frac{3}{5} \times \frac{11}{9} = \frac{11}{15}$$

$$\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times 8 = 6$$

$$\frac{7}{20} \div \frac{5}{12} = \frac{7}{20} \times \frac{12}{5} = \frac{21}{25}$$

$$\frac{5}{12} \div \frac{3}{8} = \frac{5}{12} \times \frac{8}{3} = \frac{10}{9}$$

$$\frac{5}{14} \div \frac{2}{7} = \frac{5}{14} \times \frac{7}{2} = \frac{5}{4}$$

$$\frac{3}{8} \div \frac{5}{6} = \frac{3}{8} \times \frac{6}{5} = \frac{9}{20}$$

○ 次の計算をしましょう。

$$\frac{5}{8} \div \frac{15}{16} = \frac{5}{\cancel{8}} \times \frac{16^2}{15_3} = \frac{2}{3}$$

$$\frac{7}{12} \div \frac{14}{15} = \frac{7}{\cancel{12}} \times \frac{15^5}{14_2} = \frac{5}{8}$$

$$\frac{3}{5} \div \frac{6}{15} = \frac{3}{\cancel{5}} \times \frac{15^3}{6_2} = \frac{3}{2}$$

$$\frac{3}{8} \div \frac{9}{10} = \frac{3}{\cancel{8}} \times \frac{10^5}{9_3} = \frac{5}{12}$$

$$\frac{5}{6} \div \frac{5}{16} = \frac{5}{\cancel{6}} \times \frac{16^8}{5_1} = \frac{8}{3}$$

$$\frac{7}{9} \div \frac{14}{27} = \frac{7}{\cancel{9}} \times \frac{27^3}{14_2} = \frac{3}{2}$$

$$\frac{2}{25} \div \frac{4}{5} = \frac{2}{\cancel{25}} \times \frac{5^1}{4_2} = \frac{1}{10}$$

$$\frac{10}{21} \div \frac{5}{7} = \frac{2}{\cancel{21}} \times \frac{7^1}{5_1} = \frac{2}{3}$$

$$\frac{2}{5} \div \frac{4}{5} = \frac{2}{\cancel{5}} \times \frac{5^1}{4_2} = \frac{1}{2}$$

○ 次の計算をしましょう。

$4 + \frac{1}{3} = \frac{12}{3} + \frac{1}{3} = \frac{13}{3}$  注意!

$$4 \frac{1}{3} \div 1 \frac{4}{9} = \frac{13}{3} \div \frac{13}{9} = \frac{13}{3} \times \frac{9^3}{13_1} = \frac{3}{1} = 3$$

$$2 \frac{5}{6} \div 4 \frac{1}{4} = \frac{17}{6} \div \frac{17}{4} = \frac{17}{\cancel{6}} \times \frac{4^2}{17_1} = \frac{2}{3}$$

$$2 \frac{3}{4} \div 8 \frac{1}{4} = \frac{11}{4} \div \frac{33}{4} = \frac{11}{\cancel{4}} \times \frac{4^1}{33_3} = \frac{1}{3}$$

$$3 \frac{1}{7} \div 2 \frac{5}{14} = \frac{22}{7} \div \frac{33}{14} = \frac{22}{\cancel{7}} \times \frac{14^2}{33_3} = \frac{4}{3}$$

$$4 \frac{1}{2} \div 3 \frac{1}{2} = \frac{9}{2} \div \frac{7}{2} = \frac{9}{\cancel{2}} \times \frac{2^1}{7} = \frac{9}{7}$$

$$1 \frac{3}{5} \div 2 \frac{2}{15} = \frac{8}{5} \div \frac{32}{15} = \frac{8}{\cancel{5}} \times \frac{15^3}{32_4} = \frac{3}{4}$$

$$1 \frac{2}{7} \div 1 \frac{28}{35} = \frac{9}{7} \div \frac{63}{35} = \frac{9}{\cancel{7}} \times \frac{35^5}{63_7} = \frac{5}{7}$$

○ 次の計算をしましょう。

$$\frac{3}{10} \div \frac{7}{8} \times \frac{7}{9} = \frac{3}{\cancel{10}} \times \frac{8^4}{7} \times \frac{7^1}{9_3} = \frac{4}{15}$$

$$\frac{3}{5} \times \frac{7}{12} \div \frac{14}{15} = \frac{3}{\cancel{5}} \times \frac{7}{12_4} \times \frac{15^3}{14_2} = \frac{3}{8}$$

$$\frac{5}{12} \div \frac{8}{3} \div \frac{15}{8} = \frac{5}{\cancel{12}} \times \frac{3^1}{8} \times \frac{8^1}{15^3} = \frac{1}{12}$$

まずは小数を  
分数になおす

$$0.6 \times \frac{2}{3} = \frac{2}{5} \times \frac{2}{3} = \frac{2}{5}$$

$$0.6 = \frac{6}{10} = \frac{3}{5}$$

$$0.8 = \frac{8}{10} = \frac{4}{5}$$

$$\frac{4}{7} \div 0.8 = \frac{4}{7} \div \frac{8}{10} = \frac{4}{7} \times \frac{10^5}{8_2} = \frac{5}{7}$$

$15 = \frac{3}{2}$

$$4 \frac{1}{6} \div 1.5 = \frac{25}{6} \div \frac{15}{10} = \frac{25}{\cancel{6}} \times \frac{10^5}{15_3} = \frac{25}{9}$$

と直して  
いいね!

$$\frac{6}{7} \times \frac{5}{6} - \frac{12}{16} = \frac{5}{7} \times \frac{3}{6} = \frac{3}{7}$$

$\frac{1}{2}$  として  
計算しても  
いいね!

$$\frac{4}{5} \times \frac{9}{24} + \frac{4}{24} = \frac{4}{5} \times \frac{13}{24_6} = \frac{13}{30}$$

○ 左から右が「かけ算」

$$(1) 3:7=9:21 \quad (2) 5:9=25:45 \quad (3) 2:5=4:10$$

$$(4) 5:8=40:64 \quad (5) 3:8=18:48 \quad (6) 9:7=63:49$$

$$(7) 6:7=36:42 \quad (8) 3:10=9:30 \quad (9) 5:9=25:45$$

$$(10) 2:7=16:56 \quad (11) 2:3=4:6 \quad (12) 2:5=4:10$$

$$(13) 2:3=6:9 \quad (14) 2:5=8:20 \quad (15) 3:7=9:21$$

$$(16) 8:9=64:72 \quad (17) 4:5=20:25 \quad (18) 6:8=42:56$$

$$(19) 9:3=63:21 \quad (20) 3:4=27:36$$

○ 左から右が「わり算」

$$(1) 10:5=2:1 \quad (2) 18:24=3:4 \quad (3) 9:6=3:2$$

$$(4) 4:12=1:3 \quad (5) 15:45=3:9 \quad (6) 18:24=3:4$$

$$(7) 12:8=6:4 \quad (8) 56:72=7:9 \quad (9) 81:27=9:3$$

$$(10) 49:14=7:2$$

○ 整数ではない等しい比

$$(1) 2.1:3.5=21:35 \quad (2) 1.5:2.5=3:5$$

$$(3) \frac{2}{9}:\frac{5}{9}=2:5 \quad (4) \frac{2}{3}:\frac{1}{6}=4:1$$

$$(5) \frac{3}{4}:\frac{5}{6}=9:10$$

○ ただ分母どうしかけて通分し、約分がない問題

(1)  $\frac{\cancel{5}}{\cancel{15}} + \frac{\cancel{6}}{\cancel{15}} = \frac{11}{15}$  (2)  $\frac{\cancel{8}}{\cancel{12}} + \frac{\cancel{3}}{\cancel{12}} = \frac{11}{12}$

(3)  $\frac{\cancel{10}}{\cancel{35}} + \frac{\cancel{21}}{\cancel{35}} = \frac{31}{35}$  (4)  $\frac{\cancel{5}}{\cancel{30}} + \frac{\cancel{12}}{\cancel{30}} = \frac{17}{30}$

(5)  $\frac{\cancel{25}}{\cancel{20}} + \frac{\cancel{16}}{\cancel{20}} = \frac{41}{20}$  (6)  $\frac{\cancel{7}}{\cancel{21}} - \frac{\cancel{3}}{\cancel{21}} = \frac{4}{21}$

(7)  $\frac{\cancel{8}}{\cancel{10}} - \frac{\cancel{5}}{\cancel{10}} = \frac{3}{10}$  (8)  $\frac{\cancel{9}}{\cancel{12}} - \frac{\cancel{4}}{\cancel{12}} = \frac{5}{12}$

(9)  $\frac{\cancel{7}}{\cancel{21}} - \frac{\cancel{6}}{\cancel{21}} = \frac{1}{21}$  (10)  $\frac{\cancel{12}}{\cancel{15}} - \frac{\cancel{10}}{\cancel{15}} = \frac{2}{15}$

○ 分母の一方に合わせて通分し、約分がない問題

(1)  $\frac{1}{4} + \frac{\cancel{2}}{\cancel{4}} = \frac{3}{4}$  (2)  $\frac{\cancel{6}}{\cancel{8}} + \frac{1}{8} = \frac{7}{8}$

(3)  $\frac{\cancel{3}}{\cancel{15}} + \frac{1}{15} = \frac{4}{15}$  (4)  $\frac{11}{14} + \frac{\cancel{6}}{\cancel{14}} = \frac{17}{14}$

(5)  $\frac{13}{16} + \frac{\cancel{6}}{\cancel{16}} = \frac{19}{16}$  (6)  $\frac{7}{8} - \frac{\cancel{2}}{\cancel{8}} = \frac{5}{8}$

(7)  $\frac{3}{10} - \frac{\cancel{2}}{\cancel{10}} = \frac{1}{10}$  (8)  $\frac{\cancel{14}}{\cancel{18}} - \frac{1}{18} = \frac{13}{18}$

(9)  $\frac{\cancel{10}}{\cancel{12}} - \frac{5}{12} = \frac{5}{12}$  (10)  $\frac{8}{9} - \frac{\cancel{6}}{\cancel{9}} = \frac{2}{9}$

○ 通分し、約分がない問題

(1)  $\frac{\cancel{9}}{\cancel{12}} + \frac{\cancel{2}}{\cancel{12}} = \frac{11}{12}$  (2)  $\frac{\cancel{3}}{\cancel{18}} + \frac{\cancel{4}}{\cancel{18}} = \frac{7}{18}$

(3)  $\frac{\cancel{15}}{\cancel{24}} + \frac{\cancel{4}}{\cancel{24}} = \frac{19}{24}$  (4)  $\frac{\cancel{12}}{\cancel{40}} + \frac{\cancel{5}}{\cancel{40}} = \frac{17}{40}$

(5)  $\frac{\cancel{14}}{\cancel{24}} + \frac{\cancel{9}}{\cancel{24}} = \frac{23}{24}$  (6)  $\frac{\cancel{22}}{\cancel{24}} - \frac{\cancel{9}}{\cancel{24}} = \frac{13}{24}$

(7)  $\frac{\cancel{9}}{\cancel{24}} - \frac{\cancel{4}}{\cancel{24}} = \frac{5}{24}$  (8)  $\frac{\cancel{10}}{\cancel{12}} - \frac{\cancel{3}}{\cancel{12}} = \frac{7}{12}$

(9)  $\frac{\cancel{10}}{\cancel{24}} - \frac{\cancel{3}}{\cancel{24}} = \frac{7}{24}$  (10)  $\frac{\cancel{28}}{\cancel{30}} - \frac{\cancel{9}}{\cancel{30}} = \frac{19}{30}$

○ 通分し、最後に約分する問題

(1)  $\frac{\cancel{9}}{\cancel{30}} + \frac{\cancel{5}}{\cancel{30}} = \frac{\cancel{7}}{\cancel{15}}$  (2)  $\frac{\cancel{9}}{\cancel{60}} + \frac{\cancel{26}}{\cancel{60}} = \frac{\cancel{35}}{\cancel{60}} = \frac{7}{12}$

(3)  $\frac{5}{24} + \frac{\cancel{1}}{\cancel{24}} = \frac{\cancel{7}}{\cancel{24}} = \frac{7}{24}$  (4)  $\frac{\cancel{28}}{\cancel{30}} + \frac{\cancel{27}}{\cancel{30}} = \frac{\cancel{55}}{\cancel{30}} = \frac{11}{6} (1\frac{5}{6})$

(5)  $\frac{\cancel{16}}{\cancel{60}} + \frac{\cancel{39}}{\cancel{60}} = \frac{\cancel{55}}{\cancel{60}} = \frac{11}{12}$  (6)  $\frac{\cancel{8}}{\cancel{10}} - \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$

(7)  $\frac{\cancel{9}}{\cancel{12}} - \frac{7}{12} = \frac{\cancel{2}}{\cancel{12}} = \frac{1}{6}$  (8)  $\frac{\cancel{54}}{\cancel{21}} - \frac{19}{21} = \frac{\cancel{35}}{\cancel{21}} = \frac{5}{3}$

(9)  $\frac{\cancel{34}}{\cancel{30}} - \frac{\cancel{9}}{\cancel{30}} = \frac{\cancel{25}}{\cancel{30}} = \frac{5}{6}$  (10)  $\frac{\cancel{25}}{\cancel{30}} - \frac{\cancel{16}}{\cancel{30}} = \frac{\cancel{9}}{\cancel{30}} = \frac{3}{10}$