

# Opérations Mixtes (A)

Effectuez chaque opération.

$$\div \frac{72}{12} \times \frac{12}{20} \times \frac{3}{12} \times \frac{18}{12} \times \frac{12}{18} \div \frac{132}{12} \times \frac{17}{12} \times \frac{12}{8} \times \frac{4}{12} \times \frac{8}{12}$$

$$\times \frac{17}{12} \div \frac{132}{12} \div \frac{24}{12} \div \frac{228}{12} \times \frac{12}{8} \div \frac{192}{12} \times \frac{3}{12} \div \frac{108}{12} \div \frac{108}{12} \div \frac{168}{12}$$

$$\times \frac{12}{12} \div \frac{48}{12} \div \frac{48}{12} \div \frac{192}{12} \div \frac{108}{12} \times \frac{12}{6} \times \frac{13}{12} \div \frac{108}{12} \times \frac{12}{18} \times \frac{12}{9}$$

$$\div \frac{96}{12} \times \frac{12}{12} \times \frac{12}{8} \times \frac{12}{4} \div \frac{216}{12} \div \frac{108}{12} \div \frac{108}{12} \times \frac{12}{8} \div \frac{144}{12} \div \frac{132}{12}$$

$$\div \frac{228}{12} \times \frac{14}{12} \div \frac{120}{12} \div \frac{60}{12} \times \frac{12}{9} \times \frac{4}{12} \div \frac{192}{12} \times \frac{20}{12} \div \frac{180}{12} \times \frac{15}{12}$$

$$\times \frac{12}{12} \times \frac{12}{9} \div \frac{240}{12} \times \frac{12}{8} \times \frac{12}{12} \times \frac{17}{12} \div \frac{144}{12} \times \frac{12}{17} \div \frac{96}{12} \times \frac{18}{12}$$

$$\times \frac{12}{16} \div \frac{12}{12} \times \frac{12}{6} \div \frac{48}{12} \div \frac{216}{12} \times \frac{6}{12} \div \frac{120}{12} \times \frac{1}{12} \times \frac{12}{16} \times \frac{12}{10}$$

$$\times \frac{12}{6} \div \frac{168}{12} \times \frac{12}{2} \div \frac{180}{12} \div \frac{144}{12} \div \frac{108}{12} \div \frac{24}{12} \div \frac{240}{12} \div \frac{240}{12} \times \frac{6}{12}$$

$$\div \frac{144}{12} \times \frac{12}{15} \div \frac{96}{12} \times \frac{12}{11} \div \frac{72}{12} \div \frac{12}{12} \times \frac{12}{11} \div \frac{192}{12} \times \frac{11}{12} \div \frac{168}{12}$$

$$\div \frac{96}{12} \div \frac{156}{12} \times \frac{16}{12} \times \frac{12}{15} \div \frac{60}{12} \div \frac{96}{12} \times \frac{18}{12} \div \frac{132}{12} \div \frac{240}{12} \times \frac{20}{12}$$

# Opérations Mixtes Solutions (A)

Effectuez chaque opération.

$$\begin{array}{cccccccccccc} \div & 72 & \times & 12 & \times & 3 & \times & 18 & \times & 12 & \div & 132 & \times & 17 & \times & 12 & \times & 4 & \times & 8 \\ \hline & 12 & \times & 20 & \times & 12 & \times & 12 & \times & 18 & \div & 12 & \times & 12 & \times & 8 & \times & 12 & \times & 12 \\ \hline & 6 & & 240 & & 36 & & 216 & & 216 & & 11 & & 204 & & 96 & & 48 & & 96 \end{array}$$

$$\begin{array}{cccccccccccc} \times & 17 & \div & 132 & \div & 24 & \div & 228 & \times & 12 & \div & 192 & \times & 3 & \div & 108 & \div & 108 & \div & 168 \\ \hline & 12 & \div & 12 & \div & 12 & \div & 12 & \times & 8 & \div & 12 & \times & 12 & \div & 12 & \div & 12 & \div & 12 \\ \hline & 204 & & 11 & & 2 & & 19 & & 96 & & 16 & & 36 & & 9 & & 9 & & 14 \end{array}$$

$$\begin{array}{cccccccccccc} \times & 12 & \div & 48 & \div & 48 & \div & 192 & \div & 108 & \times & 12 & \times & 13 & \div & 108 & \times & 12 & \times & 12 \\ \hline & 12 & \div & 12 & \div & 12 & \div & 12 & \div & 12 & \times & 6 & \times & 12 & \div & 12 & \times & 18 & \times & 9 \\ \hline & 144 & & 4 & & 4 & & 16 & & 9 & & 72 & & 156 & & 9 & & 216 & & 108 \end{array}$$

$$\begin{array}{cccccccccccc} \div & 96 & \times & 12 & \times & 12 & \times & 12 & \div & 216 & \div & 108 & \div & 108 & \times & 12 & \div & 144 & \div & 132 \\ \hline & 12 & \times & 12 & \times & 8 & \times & 4 & \div & 12 & \div & 12 & \div & 12 & \times & 8 & \div & 12 & \div & 12 \\ \hline & 8 & & 144 & & 96 & & 48 & & 18 & & 9 & & 9 & & 96 & & 12 & & 11 \end{array}$$

$$\begin{array}{cccccccccccc} \div & 228 & \times & 14 & \div & 120 & \div & 60 & \times & 12 & \times & 4 & \div & 192 & \times & 20 & \div & 180 & \times & 15 \\ \hline & 12 & \times & 12 & \div & 12 & \div & 12 & \times & 9 & \times & 12 & \div & 12 & \times & 12 & \div & 12 & \times & 12 \\ \hline & 19 & & 168 & & 10 & & 5 & & 108 & & 48 & & 16 & & 240 & & 15 & & 180 \end{array}$$

$$\begin{array}{cccccccccccc} \times & 12 & \times & 12 & \div & 240 & \times & 12 & \times & 12 & \times & 17 & \div & 144 & \times & 12 & \div & 96 & \times & 18 \\ \hline & 12 & \times & 9 & \div & 12 & \times & 8 & \times & 12 & \times & 12 & \div & 12 & \times & 17 & \div & 12 & \times & 12 \\ \hline & 144 & & 108 & & 20 & & 96 & & 144 & & 204 & & 12 & & 204 & & 8 & & 216 \end{array}$$

$$\begin{array}{cccccccccccc} \times & 12 & \div & 12 & \times & 12 & \div & 48 & \div & 216 & \times & 6 & \div & 120 & \times & 1 & \times & 12 & \times & 12 \\ \hline & 16 & \div & 12 & \times & 6 & \div & 12 & \div & 12 & \times & 12 & \div & 12 & \times & 12 & \times & 16 & \times & 10 \\ \hline & 192 & & 1 & & 72 & & 4 & & 18 & & 72 & & 10 & & 12 & & 192 & & 120 \end{array}$$

$$\begin{array}{cccccccccccc} \times & 12 & \div & 168 & \times & 12 & \div & 180 & \div & 144 & \div & 108 & \div & 24 & \div & 240 & \div & 240 & \times & 6 \\ \hline & 6 & \div & 12 & \times & 2 & \div & 12 & \div & 12 & \div & 12 & \div & 12 & \div & 12 & \div & 12 & \times & 12 \\ \hline & 72 & & 14 & & 24 & & 15 & & 12 & & 9 & & 2 & & 20 & & 20 & & 72 \end{array}$$

$$\begin{array}{cccccccccccc} \div & 144 & \times & 12 & \div & 96 & \times & 12 & \div & 72 & \div & 12 & \times & 12 & \div & 192 & \times & 11 & \div & 168 \\ \hline & 12 & \times & 15 & \div & 12 & \times & 11 & \div & 12 & \div & 12 & \times & 11 & \div & 12 & \times & 12 & \div & 12 \\ \hline & 12 & & 180 & & 8 & & 132 & & 6 & & 1 & & 132 & & 16 & & 132 & & 14 \end{array}$$

$$\begin{array}{cccccccccccc} \div & 96 & \div & 156 & \times & 16 & \times & 12 & \div & 60 & \div & 96 & \times & 18 & \div & 132 & \div & 240 & \times & 20 \\ \hline & 12 & \div & 12 & \times & 12 & \times & 15 & \div & 12 & \div & 12 & \times & 12 & \div & 12 & \div & 12 & \times & 12 \\ \hline & 8 & & 13 & & 192 & & 180 & & 5 & & 8 & & 216 & & 11 & & 20 & & 240 \end{array}$$

## Opérations Mixtes (B)

Effectuez chaque opération.

$$\times \frac{13}{12} \div \frac{240}{12} \times \frac{12}{14} \times \frac{12}{8} \div \frac{120}{12} \div \frac{132}{12} \div \frac{204}{12} \times \frac{9}{12} \times \frac{20}{12} \div \frac{84}{12}$$

$$\times \frac{8}{12} \times \frac{12}{3} \times \frac{12}{3} \div \frac{96}{12} \times \frac{12}{2} \times \frac{19}{12} \div \frac{180}{12} \div \frac{156}{12} \times \frac{12}{9} \times \frac{12}{20}$$

$$\div \frac{120}{12} \times \frac{7}{12} \div \frac{48}{12} \times \frac{15}{12} \div \frac{108}{12} \div \frac{84}{12} \div \frac{48}{12} \times \frac{15}{12} \times \frac{14}{12} \times \frac{12}{12}$$

$$\div \frac{204}{12} \times \frac{12}{6} \div \frac{12}{12} \times \frac{20}{12} \times \frac{7}{12} \times \frac{12}{8} \div \frac{156}{12} \times \frac{12}{12} \div \frac{144}{12} \div \frac{168}{12}$$

$$\times \frac{12}{3} \times \frac{17}{12} \times \frac{2}{12} \times \frac{15}{12} \times \frac{14}{12} \times \frac{4}{12} \div \frac{96}{12} \div \frac{240}{12} \div \frac{108}{12} \times \frac{5}{12}$$

$$\times \frac{20}{12} \times \frac{5}{12} \times \frac{12}{20} \div \frac{168}{12} \times \frac{12}{4} \times \frac{18}{12} \div \frac{240}{12} \times \frac{11}{12} \times \frac{4}{12} \div \frac{240}{12}$$

$$\div \frac{120}{12} \div \frac{240}{12} \div \frac{168}{12} \times \frac{12}{17} \div \frac{108}{12} \div \frac{192}{12} \div \frac{132}{12} \times \frac{18}{12} \times \frac{5}{12} \times \frac{12}{6}$$

$$\times \frac{4}{12} \times \frac{12}{3} \times \frac{3}{12} \times \frac{17}{12} \div \frac{96}{12} \div \frac{96}{12} \times \frac{12}{18} \div \frac{240}{12} \div \frac{72}{12} \div \frac{60}{12}$$

$$\times \frac{15}{12} \div \frac{120}{12} \times \frac{11}{12} \div \frac{216}{12} \div \frac{84}{12} \div \frac{12}{12} \times \frac{6}{12} \div \frac{216}{12} \times \frac{14}{12} \times \frac{12}{14}$$

$$\times \frac{20}{12} \div \frac{12}{12} \times \frac{11}{12} \div \frac{108}{12} \times \frac{1}{12} \div \frac{204}{12} \times \frac{12}{2} \div \frac{132}{12} \times \frac{12}{4} \div \frac{132}{12}$$

# Opérations Mixtes Solutions (B)

Effectuez chaque opération.

$\times \frac{13}{12}$	$\div \frac{240}{12}$	$\times \frac{12}{14}$	$\times \frac{12}{8}$	$\div \frac{120}{12}$	$\div \frac{132}{12}$	$\div \frac{204}{12}$	$\times \frac{9}{12}$	$\times \frac{20}{12}$	$\div \frac{84}{12}$
156	20	168	96	10	11	17	108	240	7
$\times \frac{8}{12}$	$\times \frac{12}{3}$	$\times \frac{12}{3}$	$\div \frac{96}{12}$	$\times \frac{12}{2}$	$\times \frac{19}{12}$	$\div \frac{180}{12}$	$\div \frac{156}{12}$	$\times \frac{12}{9}$	$\times \frac{12}{20}$
96	36	36	8	24	228	15	13	108	240
$\div \frac{120}{12}$	$\times \frac{7}{12}$	$\div \frac{48}{12}$	$\times \frac{15}{12}$	$\div \frac{108}{12}$	$\div \frac{84}{12}$	$\div \frac{48}{12}$	$\times \frac{15}{12}$	$\times \frac{14}{12}$	$\times \frac{12}{12}$
10	84	4	180	9	7	4	180	168	144
$\div \frac{204}{12}$	$\times \frac{12}{6}$	$\div \frac{12}{12}$	$\times \frac{20}{12}$	$\times \frac{7}{12}$	$\times \frac{12}{8}$	$\div \frac{156}{12}$	$\times \frac{12}{12}$	$\div \frac{144}{12}$	$\div \frac{168}{12}$
17	72	1	240	84	96	13	144	12	14
$\times \frac{12}{3}$	$\times \frac{17}{12}$	$\times \frac{2}{12}$	$\times \frac{15}{12}$	$\times \frac{14}{12}$	$\times \frac{4}{12}$	$\div \frac{96}{12}$	$\div \frac{240}{12}$	$\div \frac{108}{12}$	$\times \frac{5}{12}$
36	204	24	180	168	48	8	20	9	60
$\times \frac{20}{12}$	$\times \frac{5}{12}$	$\times \frac{12}{20}$	$\div \frac{168}{12}$	$\times \frac{12}{4}$	$\times \frac{18}{12}$	$\div \frac{240}{12}$	$\times \frac{11}{12}$	$\times \frac{4}{12}$	$\div \frac{240}{12}$
240	60	240	14	48	216	20	132	48	20
$\div \frac{120}{12}$	$\div \frac{240}{12}$	$\div \frac{168}{12}$	$\times \frac{12}{17}$	$\div \frac{108}{12}$	$\div \frac{192}{12}$	$\div \frac{132}{12}$	$\times \frac{18}{12}$	$\times \frac{5}{12}$	$\times \frac{12}{6}$
10	20	14	204	9	16	11	216	60	72
$\times \frac{4}{12}$	$\times \frac{12}{3}$	$\times \frac{3}{12}$	$\times \frac{17}{12}$	$\div \frac{96}{12}$	$\div \frac{96}{12}$	$\times \frac{12}{18}$	$\div \frac{240}{12}$	$\div \frac{72}{12}$	$\div \frac{60}{12}$
48	36	36	204	8	8	216	20	6	5
$\times \frac{15}{12}$	$\div \frac{120}{12}$	$\times \frac{11}{12}$	$\div \frac{216}{12}$	$\div \frac{84}{12}$	$\div \frac{12}{12}$	$\times \frac{6}{12}$	$\div \frac{216}{12}$	$\times \frac{14}{12}$	$\times \frac{12}{14}$
180	10	132	18	7	1	72	18	168	168
$\times \frac{20}{12}$	$\div \frac{12}{12}$	$\times \frac{11}{12}$	$\div \frac{108}{12}$	$\times \frac{1}{12}$	$\div \frac{204}{12}$	$\times \frac{12}{2}$	$\div \frac{132}{12}$	$\times \frac{12}{4}$	$\div \frac{132}{12}$
240	1	132	9	12	17	24	11	48	11

## Opérations Mixtes (C)

Effectuez chaque opération.

$$\times \frac{12}{20} \times \frac{12}{8} \times \frac{1}{12} \div \frac{144}{12} \times \frac{15}{12} \times \frac{6}{12} \div \frac{84}{12} \times \frac{13}{12} \div \frac{168}{12} \div \frac{72}{12}$$

$$\div \frac{84}{12} \div \frac{72}{12} \div \frac{60}{12} \times \frac{12}{17} \div \frac{216}{12} \times \frac{19}{12} \times \frac{5}{12} \div \frac{132}{12} \div \frac{72}{12} \times \frac{20}{12}$$

$$\div \frac{12}{12} \times \frac{19}{12} \div \frac{228}{12} \div \frac{48}{12} \div \frac{180}{12} \times \frac{1}{12} \times \frac{4}{12} \div \frac{168}{12} \div \frac{204}{12} \times \frac{12}{18}$$

$$\times \frac{6}{12} \times \frac{1}{12} \times \frac{6}{12} \times \frac{8}{12} \div \frac{156}{12} \div \frac{84}{12} \div \frac{36}{12} \div \frac{240}{12} \times \frac{9}{12} \div \frac{168}{12}$$

$$\times \frac{5}{12} \times \frac{15}{12} \times \frac{12}{19} \times \frac{12}{9} \times \frac{12}{8} \times \frac{15}{12} \times \frac{12}{20} \div \frac{36}{12} \div \frac{132}{12} \div \frac{240}{12}$$

$$\times \frac{12}{3} \times \frac{6}{12} \div \frac{216}{12} \times \frac{12}{19} \div \frac{144}{12} \times \frac{12}{1} \times \frac{11}{12} \times \frac{4}{12} \times \frac{8}{12} \div \frac{192}{12}$$

$$\div \frac{120}{12} \times \frac{12}{1} \div \frac{228}{12} \div \frac{24}{12} \times \frac{5}{12} \div \frac{24}{12} \times \frac{5}{12} \div \frac{132}{12} \div \frac{180}{12} \times \frac{17}{12}$$

$$\div \frac{36}{12} \times \frac{19}{12} \div \frac{216}{12} \div \frac{216}{12} \div \frac{96}{12} \div \frac{216}{12} \div \frac{168}{12} \times \frac{12}{15} \div \frac{144}{12} \div \frac{96}{12}$$

$$\times \frac{12}{2} \times \frac{16}{12} \times \frac{12}{11} \div \frac{132}{12} \times \frac{12}{5} \times \frac{9}{12} \div \frac{156}{12} \times \frac{12}{19} \div \frac{72}{12} \div \frac{132}{12}$$

$$\times \frac{4}{12} \times \frac{12}{1} \div \frac{228}{12} \div \frac{168}{12} \div \frac{168}{12} \div \frac{180}{12} \times \frac{12}{12} \div \frac{228}{12} \times \frac{12}{20} \div \frac{108}{12}$$

# Opérations Mixtes Solutions (C)

Effectuez chaque opération.

$\times \frac{12}{20}$	$\times \frac{12}{8}$	$\times \frac{1}{12}$	$\div \frac{144}{12}$	$\times \frac{15}{12}$	$\times \frac{6}{12}$	$\div \frac{84}{12}$	$\times \frac{13}{12}$	$\div \frac{168}{12}$	$\div \frac{72}{12}$
240	96	12	12	180	72	7	156	14	6
$\div \frac{84}{12}$	$\div \frac{72}{12}$	$\div \frac{60}{12}$	$\times \frac{12}{17}$	$\div \frac{216}{12}$	$\times \frac{19}{12}$	$\times \frac{5}{12}$	$\div \frac{132}{12}$	$\div \frac{72}{12}$	$\times \frac{20}{12}$
7	6	5	204	18	228	60	11	6	240
$\div \frac{12}{12}$	$\times \frac{19}{12}$	$\div \frac{228}{12}$	$\div \frac{48}{12}$	$\div \frac{180}{12}$	$\times \frac{1}{12}$	$\times \frac{4}{12}$	$\div \frac{168}{12}$	$\div \frac{204}{12}$	$\times \frac{12}{18}$
1	228	19	4	15	12	48	14	17	216
$\times \frac{6}{12}$	$\times \frac{1}{12}$	$\times \frac{6}{12}$	$\times \frac{8}{12}$	$\div \frac{156}{12}$	$\div \frac{84}{12}$	$\div \frac{36}{12}$	$\div \frac{240}{12}$	$\times \frac{9}{12}$	$\div \frac{168}{12}$
72	12	72	96	13	7	3	20	108	14
$\times \frac{5}{12}$	$\times \frac{15}{12}$	$\times \frac{12}{19}$	$\times \frac{12}{9}$	$\times \frac{12}{8}$	$\times \frac{15}{12}$	$\times \frac{12}{20}$	$\div \frac{36}{12}$	$\div \frac{132}{12}$	$\div \frac{240}{12}$
60	180	228	108	96	180	240	3	11	20
$\times \frac{12}{3}$	$\times \frac{6}{12}$	$\div \frac{216}{12}$	$\times \frac{12}{19}$	$\div \frac{144}{12}$	$\times \frac{12}{1}$	$\times \frac{11}{12}$	$\times \frac{4}{12}$	$\times \frac{8}{12}$	$\div \frac{192}{12}$
36	72	18	228	12	12	132	48	96	16
$\div \frac{120}{12}$	$\times \frac{12}{1}$	$\div \frac{228}{12}$	$\div \frac{24}{12}$	$\times \frac{5}{12}$	$\div \frac{24}{12}$	$\times \frac{5}{12}$	$\div \frac{132}{12}$	$\div \frac{180}{12}$	$\times \frac{17}{12}$
10	12	19	2	60	2	60	11	15	204
$\div \frac{36}{12}$	$\times \frac{19}{12}$	$\div \frac{216}{12}$	$\div \frac{216}{12}$	$\div \frac{96}{12}$	$\div \frac{216}{12}$	$\div \frac{168}{12}$	$\times \frac{12}{15}$	$\div \frac{144}{12}$	$\div \frac{96}{12}$
3	228	18	18	8	18	14	180	12	8
$\times \frac{12}{2}$	$\times \frac{16}{12}$	$\times \frac{12}{11}$	$\div \frac{132}{12}$	$\times \frac{12}{5}$	$\times \frac{9}{12}$	$\div \frac{156}{12}$	$\times \frac{12}{19}$	$\div \frac{72}{12}$	$\div \frac{132}{12}$
24	192	132	11	60	108	13	228	6	11
$\times \frac{4}{12}$	$\times \frac{12}{1}$	$\div \frac{228}{12}$	$\div \frac{168}{12}$	$\div \frac{168}{12}$	$\div \frac{180}{12}$	$\times \frac{12}{12}$	$\div \frac{228}{12}$	$\times \frac{12}{20}$	$\div \frac{108}{12}$
48	12	19	14	14	15	144	19	240	9

## Opérations Mixtes (D)

Effectuez chaque opération.

$$\times \frac{15}{12} \times \frac{12}{11} \times \frac{5}{12} \div \frac{192}{12} \div \frac{156}{12} \times \frac{5}{12} \times \frac{15}{12} \times \frac{7}{12} \div \frac{228}{12} \times \frac{18}{12}$$

$$\times \frac{4}{12} \div \frac{60}{12} \times \frac{8}{12} \div \frac{12}{12} \div \frac{132}{12} \div \frac{48}{12} \div \frac{120}{12} \div \frac{156}{12} \times \frac{12}{11} \times \frac{12}{1}$$

$$\div \frac{228}{12} \times \frac{12}{14} \times \frac{12}{10} \times \frac{12}{7} \div \frac{180}{12} \times \frac{18}{12} \div \frac{120}{12} \times \frac{8}{12} \div \frac{84}{12} \div \frac{144}{12}$$

$$\div \frac{228}{12} \times \frac{14}{12} \div \frac{132}{12} \div \frac{84}{12} \div \frac{72}{12} \div \frac{216}{12} \div \frac{12}{12} \div \frac{240}{12} \div \frac{144}{12} \times \frac{12}{8}$$

$$\times \frac{14}{12} \div \frac{84}{12} \times \frac{6}{12} \div \frac{240}{12} \div \frac{108}{12} \times \frac{8}{12} \div \frac{12}{12} \times \frac{12}{1} \times \frac{12}{5} \times \frac{12}{14}$$

$$\div \frac{132}{12} \times \frac{12}{4} \times \frac{12}{2} \div \frac{216}{12} \div \frac{180}{12} \div \frac{228}{12} \times \frac{12}{12} \times \frac{12}{3} \div \frac{60}{12} \times \frac{14}{12}$$

$$\times \frac{12}{15} \times \frac{6}{12} \times \frac{8}{12} \times \frac{12}{12} \times \frac{12}{17} \div \frac{72}{12} \times \frac{5}{12} \div \frac{132}{12} \times \frac{19}{12} \div \frac{72}{12}$$

$$\div \frac{180}{12} \times \frac{12}{19} \div \frac{132}{12} \div \frac{36}{12} \div \frac{204}{12} \div \frac{180}{12} \times \frac{13}{12} \times \frac{12}{6} \div \frac{132}{12} \div \frac{24}{12}$$

$$\times \frac{4}{12} \times \frac{12}{7} \times \frac{12}{17} \div \frac{180}{12} \div \frac{96}{12} \times \frac{1}{12} \times \frac{12}{12} \times \frac{1}{12} \div \frac{228}{12} \times \frac{12}{9}$$

$$\times \frac{13}{12} \div \frac{168}{12} \times \frac{2}{12} \div \frac{84}{12} \times \frac{9}{12} \div \frac{60}{12} \times \frac{12}{4} \times \frac{14}{12} \div \frac{36}{12} \div \frac{132}{12}$$

# Opérations Mixtes Solutions (D)

Effectuez chaque opération.

$\times \frac{15}{12}$	$\times \frac{12}{11}$	$\times \frac{5}{12}$	$\div \frac{192}{12}$	$\div \frac{156}{12}$	$\times \frac{5}{12}$	$\times \frac{15}{12}$	$\times \frac{7}{12}$	$\div \frac{228}{12}$	$\times \frac{18}{12}$
180	132	60	16	13	60	180	84	19	216
$\times \frac{4}{12}$	$\div \frac{60}{12}$	$\times \frac{8}{12}$	$\div \frac{12}{12}$	$\div \frac{132}{12}$	$\div \frac{48}{12}$	$\div \frac{120}{12}$	$\div \frac{156}{12}$	$\times \frac{12}{11}$	$\times \frac{12}{1}$
48	5	96	1	11	4	10	13	132	12
$\div \frac{228}{12}$	$\times \frac{12}{14}$	$\times \frac{12}{10}$	$\times \frac{12}{7}$	$\div \frac{180}{12}$	$\times \frac{18}{12}$	$\div \frac{120}{12}$	$\times \frac{8}{12}$	$\div \frac{84}{12}$	$\div \frac{144}{12}$
19	168	120	84	15	216	10	96	7	12
$\div \frac{228}{12}$	$\times \frac{14}{12}$	$\div \frac{132}{12}$	$\div \frac{84}{12}$	$\div \frac{72}{12}$	$\div \frac{216}{12}$	$\div \frac{12}{12}$	$\div \frac{240}{12}$	$\div \frac{144}{12}$	$\times \frac{12}{8}$
19	168	11	7	6	18	1	20	12	96
$\times \frac{14}{12}$	$\div \frac{84}{12}$	$\times \frac{6}{12}$	$\div \frac{240}{12}$	$\div \frac{108}{12}$	$\times \frac{8}{12}$	$\div \frac{12}{12}$	$\times \frac{12}{1}$	$\times \frac{12}{5}$	$\times \frac{12}{14}$
168	7	72	20	9	96	1	12	60	168
$\div \frac{132}{12}$	$\times \frac{12}{4}$	$\times \frac{12}{2}$	$\div \frac{216}{12}$	$\div \frac{180}{12}$	$\div \frac{228}{12}$	$\times \frac{12}{12}$	$\times \frac{12}{3}$	$\div \frac{60}{12}$	$\times \frac{14}{12}$
11	48	24	18	15	19	144	36	5	168
$\times \frac{12}{15}$	$\times \frac{6}{12}$	$\times \frac{8}{12}$	$\times \frac{12}{12}$	$\times \frac{12}{17}$	$\div \frac{72}{12}$	$\times \frac{5}{12}$	$\div \frac{132}{12}$	$\times \frac{19}{12}$	$\div \frac{72}{12}$
180	72	96	144	204	6	60	11	228	6
$\div \frac{180}{12}$	$\times \frac{12}{19}$	$\div \frac{132}{12}$	$\div \frac{36}{12}$	$\div \frac{204}{12}$	$\div \frac{180}{12}$	$\times \frac{13}{12}$	$\times \frac{12}{6}$	$\div \frac{132}{12}$	$\div \frac{24}{12}$
15	228	11	3	17	15	156	72	11	2
$\times \frac{4}{12}$	$\times \frac{12}{7}$	$\times \frac{12}{17}$	$\div \frac{180}{12}$	$\div \frac{96}{12}$	$\times \frac{1}{12}$	$\times \frac{12}{12}$	$\times \frac{1}{12}$	$\div \frac{228}{12}$	$\times \frac{12}{9}$
48	84	204	15	8	12	144	12	19	108
$\times \frac{13}{12}$	$\div \frac{168}{12}$	$\times \frac{2}{12}$	$\div \frac{84}{12}$	$\times \frac{9}{12}$	$\div \frac{60}{12}$	$\times \frac{12}{4}$	$\times \frac{14}{12}$	$\div \frac{36}{12}$	$\div \frac{132}{12}$
156	14	24	7	108	5	48	168	3	11



# Opérations Mixtes (E)

Effectuez chaque opération.

$$\times \frac{12}{15} \div \frac{36}{12} \div \frac{12}{12} \times \frac{12}{15} \div \frac{240}{12} \div \frac{144}{12} \div \frac{36}{12} \times \frac{12}{12} \times \frac{12}{3} \div \frac{204}{12}$$

$$\div \frac{168}{12} \times \frac{10}{12} \times \frac{12}{18} \div \frac{168}{12} \div \frac{72}{12} \div \frac{60}{12} \div \frac{36}{12} \div \frac{144}{12} \times \frac{12}{12} \div \frac{72}{12}$$

$$\div \frac{228}{12} \times \frac{12}{8} \div \frac{192}{12} \times \frac{7}{12} \div \frac{12}{12} \div \frac{240}{12} \div \frac{84}{12} \div \frac{36}{12} \div \frac{60}{12} \div \frac{60}{12}$$

$$\times \frac{12}{20} \times \frac{15}{12} \times \frac{12}{1} \div \frac{120}{12} \div \frac{36}{12} \times \frac{1}{12} \times \frac{18}{12} \times \frac{9}{12} \times \frac{16}{12} \times \frac{10}{12}$$

$$\times \frac{12}{4} \div \frac{24}{12} \times \frac{4}{12} \div \frac{168}{12} \times \frac{12}{8} \times \frac{12}{11} \div \frac{216}{12} \times \frac{12}{15} \div \frac{48}{12} \times \frac{12}{17}$$

$$\times \frac{2}{12} \div \frac{12}{12} \times \frac{12}{15} \times \frac{12}{4} \times \frac{12}{3} \times \frac{12}{12} \div \frac{108}{12} \div \frac{192}{12} \div \frac{240}{12} \div \frac{60}{12}$$

$$\div \frac{180}{12} \div \frac{60}{12} \div \frac{48}{12} \div \frac{120}{12} \div \frac{72}{12} \times \frac{12}{19} \div \frac{156}{12} \div \frac{180}{12} \times \frac{12}{16} \times \frac{2}{12}$$

$$\div \frac{108}{12} \times \frac{1}{12} \times \frac{7}{12} \times \frac{12}{10} \div \frac{216}{12} \div \frac{120}{12} \times \frac{11}{12} \times \frac{12}{17} \times \frac{12}{14} \times \frac{12}{10}$$

$$\div \frac{108}{12} \div \frac{144}{12} \div \frac{96}{12} \div \frac{216}{12} \times \frac{3}{12} \div \frac{156}{12} \times \frac{12}{17} \times \frac{17}{12} \times \frac{11}{12} \div \frac{204}{12}$$

$$\div \frac{108}{12} \times \frac{12}{18} \times \frac{12}{6} \times \frac{12}{4} \div \frac{96}{12} \div \frac{192}{12} \times \frac{13}{12} \div \frac{36}{12} \times \frac{12}{10} \div \frac{108}{12}$$

# Opérations Mixtes Solutions (E)

Effectuez chaque opération.

$$\begin{array}{r} \times \frac{12}{15} \div \frac{36}{12} \div \frac{12}{12} \times \frac{12}{15} \div \frac{240}{12} \div \frac{144}{12} \div \frac{36}{12} \times \frac{12}{12} \times \frac{12}{3} \div \frac{204}{12} \\ \hline 180 \quad 3 \quad 1 \quad 180 \quad 20 \quad 12 \quad 3 \quad 144 \quad 36 \quad 17 \end{array}$$

$$\begin{array}{r} \div \frac{168}{12} \times \frac{10}{12} \times \frac{12}{18} \div \frac{168}{12} \div \frac{72}{12} \div \frac{60}{12} \div \frac{36}{12} \div \frac{144}{12} \times \frac{12}{12} \div \frac{72}{12} \\ \hline 14 \quad 120 \quad 216 \quad 14 \quad 6 \quad 5 \quad 3 \quad 12 \quad 144 \quad 6 \end{array}$$

$$\begin{array}{r} \div \frac{228}{12} \times \frac{12}{8} \div \frac{192}{12} \times \frac{7}{12} \div \frac{12}{12} \div \frac{240}{12} \div \frac{84}{12} \div \frac{36}{12} \div \frac{60}{12} \div \frac{60}{12} \\ \hline 19 \quad 96 \quad 16 \quad 84 \quad 1 \quad 20 \quad 7 \quad 3 \quad 5 \quad 5 \end{array}$$

$$\begin{array}{r} \times \frac{12}{20} \times \frac{15}{12} \times \frac{12}{1} \div \frac{120}{12} \div \frac{36}{12} \times \frac{1}{12} \times \frac{18}{12} \times \frac{9}{12} \times \frac{16}{12} \times \frac{10}{12} \\ \hline 240 \quad 180 \quad 12 \quad 10 \quad 3 \quad 12 \quad 216 \quad 108 \quad 192 \quad 120 \end{array}$$

$$\begin{array}{r} \times \frac{12}{4} \div \frac{24}{12} \times \frac{4}{12} \div \frac{168}{12} \times \frac{12}{8} \times \frac{12}{11} \div \frac{216}{12} \times \frac{12}{15} \div \frac{48}{12} \times \frac{12}{17} \\ \hline 48 \quad 2 \quad 48 \quad 14 \quad 96 \quad 132 \quad 18 \quad 180 \quad 4 \quad 204 \end{array}$$

$$\begin{array}{r} \times \frac{2}{12} \div \frac{12}{12} \times \frac{12}{15} \times \frac{12}{4} \times \frac{12}{3} \times \frac{12}{12} \div \frac{108}{12} \div \frac{192}{12} \div \frac{240}{12} \div \frac{60}{12} \\ \hline 24 \quad 1 \quad 180 \quad 48 \quad 36 \quad 144 \quad 9 \quad 16 \quad 20 \quad 5 \end{array}$$

$$\begin{array}{r} \div \frac{180}{12} \div \frac{60}{12} \div \frac{48}{12} \div \frac{120}{12} \div \frac{72}{12} \times \frac{12}{19} \div \frac{156}{12} \div \frac{180}{12} \times \frac{12}{16} \times \frac{2}{12} \\ \hline 15 \quad 5 \quad 4 \quad 10 \quad 6 \quad 228 \quad 13 \quad 15 \quad 192 \quad 24 \end{array}$$

$$\begin{array}{r} \div \frac{108}{12} \times \frac{1}{12} \times \frac{7}{12} \times \frac{12}{10} \div \frac{216}{12} \div \frac{120}{12} \times \frac{11}{12} \times \frac{12}{17} \times \frac{12}{14} \times \frac{12}{10} \\ \hline 9 \quad 12 \quad 84 \quad 120 \quad 18 \quad 10 \quad 132 \quad 204 \quad 168 \quad 120 \end{array}$$

$$\begin{array}{r} \div \frac{108}{12} \div \frac{144}{12} \div \frac{96}{12} \div \frac{216}{12} \times \frac{3}{12} \div \frac{156}{12} \times \frac{12}{17} \times \frac{17}{12} \times \frac{11}{12} \div \frac{204}{12} \\ \hline 9 \quad 12 \quad 8 \quad 18 \quad 36 \quad 13 \quad 204 \quad 204 \quad 132 \quad 17 \end{array}$$

$$\begin{array}{r} \div \frac{108}{12} \times \frac{12}{18} \times \frac{12}{6} \times \frac{12}{4} \div \frac{96}{12} \div \frac{192}{12} \times \frac{13}{12} \div \frac{36}{12} \times \frac{12}{10} \div \frac{108}{12} \\ \hline 9 \quad 216 \quad 72 \quad 48 \quad 8 \quad 16 \quad 156 \quad 3 \quad 120 \quad 9 \end{array}$$

# Opérations Mixtes (F)

Effectuez chaque opération.

$$\times \frac{5}{12} \div \frac{72}{12} \div \frac{24}{12} \times \frac{15}{12} \div \frac{228}{12} \times \frac{13}{12} \div \frac{192}{12} \times \frac{12}{6} \div \frac{204}{12} \div \frac{96}{12}$$

$$\div \frac{156}{12} \div \frac{144}{12} \times \frac{12}{12} \times \frac{12}{11} \div \frac{96}{12} \div \frac{192}{12} \times \frac{8}{12} \div \frac{72}{12} \div \frac{216}{12} \div \frac{240}{12}$$

$$\div \frac{144}{12} \times \frac{12}{17} \div \frac{144}{12} \times \frac{12}{13} \div \frac{156}{12} \div \frac{204}{12} \times \frac{5}{12} \div \frac{156}{12} \times \frac{12}{4} \times \frac{17}{12}$$

$$\div \frac{156}{12} \times \frac{12}{8} \div \frac{180}{12} \div \frac{168}{12} \times \frac{14}{12} \times \frac{12}{13} \times \frac{12}{12} \div \frac{36}{12} \div \frac{144}{12} \times \frac{12}{5}$$

$$\times \frac{10}{12} \div \frac{120}{12} \div \frac{84}{12} \div \frac{216}{12} \times \frac{12}{20} \div \frac{132}{12} \times \frac{12}{17} \times \frac{14}{12} \times \frac{10}{12} \times \frac{14}{12}$$

$$\times \frac{17}{12} \div \frac{240}{12} \times \frac{12}{14} \div \frac{228}{12} \div \frac{192}{12} \div \frac{120}{12} \times \frac{12}{4} \times \frac{11}{12} \div \frac{120}{12} \div \frac{108}{12}$$

$$\times \frac{12}{12} \div \frac{108}{12} \div \frac{144}{12} \times \frac{12}{1} \div \frac{36}{12} \div \frac{204}{12} \div \frac{72}{12} \times \frac{12}{14} \times \frac{12}{19} \div \frac{36}{12}$$

$$\times \frac{12}{15} \div \frac{60}{12} \times \frac{6}{12} \div \frac{108}{12} \div \frac{72}{12} \times \frac{10}{12} \div \frac{84}{12} \times \frac{6}{12} \times \frac{12}{7} \div \frac{60}{12}$$

$$\times \frac{11}{12} \times \frac{12}{10} \times \frac{14}{12} \div \frac{24}{12} \times \frac{12}{6} \times \frac{8}{12} \div \frac{48}{12} \div \frac{72}{12} \times \frac{12}{3} \div \frac{132}{12}$$

$$\div \frac{144}{12} \times \frac{6}{12} \div \frac{48}{12} \div \frac{84}{12} \div \frac{204}{12} \div \frac{72}{12} \times \frac{2}{12} \div \frac{204}{12} \div \frac{132}{12} \div \frac{168}{12}$$

# Opérations Mixtes Solutions (F)

Effectuez chaque opération.

$\times \frac{5}{12}$	$\div \frac{72}{12}$	$\div \frac{24}{12}$	$\times \frac{15}{12}$	$\div \frac{228}{12}$	$\times \frac{13}{12}$	$\div \frac{192}{12}$	$\times \frac{12}{6}$	$\div \frac{204}{12}$	$\div \frac{96}{12}$
<b>60</b>	<b>6</b>	<b>2</b>	<b>180</b>	<b>19</b>	<b>156</b>	<b>16</b>	<b>72</b>	<b>17</b>	<b>8</b>
$\div \frac{156}{12}$	$\div \frac{144}{12}$	$\times \frac{12}{12}$	$\times \frac{12}{11}$	$\div \frac{96}{12}$	$\div \frac{192}{12}$	$\times \frac{8}{12}$	$\div \frac{72}{12}$	$\div \frac{216}{12}$	$\div \frac{240}{12}$
<b>13</b>	<b>12</b>	<b>144</b>	<b>132</b>	<b>8</b>	<b>16</b>	<b>96</b>	<b>6</b>	<b>18</b>	<b>20</b>
$\div \frac{144}{12}$	$\times \frac{12}{17}$	$\div \frac{144}{12}$	$\times \frac{12}{13}$	$\div \frac{156}{12}$	$\div \frac{204}{12}$	$\times \frac{5}{12}$	$\div \frac{156}{12}$	$\times \frac{12}{4}$	$\times \frac{17}{12}$
<b>12</b>	<b>204</b>	<b>12</b>	<b>156</b>	<b>13</b>	<b>17</b>	<b>60</b>	<b>13</b>	<b>48</b>	<b>204</b>
$\div \frac{156}{12}$	$\times \frac{12}{8}$	$\div \frac{180}{12}$	$\div \frac{168}{12}$	$\times \frac{14}{12}$	$\times \frac{12}{13}$	$\times \frac{12}{12}$	$\div \frac{36}{12}$	$\div \frac{144}{12}$	$\times \frac{12}{5}$
<b>13</b>	<b>96</b>	<b>15</b>	<b>14</b>	<b>168</b>	<b>156</b>	<b>144</b>	<b>3</b>	<b>12</b>	<b>60</b>
$\times \frac{10}{12}$	$\div \frac{120}{12}$	$\div \frac{84}{12}$	$\div \frac{216}{12}$	$\times \frac{12}{20}$	$\div \frac{132}{12}$	$\times \frac{12}{17}$	$\times \frac{14}{12}$	$\times \frac{10}{12}$	$\times \frac{14}{12}$
<b>120</b>	<b>10</b>	<b>7</b>	<b>18</b>	<b>240</b>	<b>11</b>	<b>204</b>	<b>168</b>	<b>120</b>	<b>168</b>
$\times \frac{17}{12}$	$\div \frac{240}{12}$	$\times \frac{12}{14}$	$\div \frac{228}{12}$	$\div \frac{192}{12}$	$\div \frac{120}{12}$	$\times \frac{12}{4}$	$\times \frac{11}{12}$	$\div \frac{120}{12}$	$\div \frac{108}{12}$
<b>204</b>	<b>20</b>	<b>168</b>	<b>19</b>	<b>16</b>	<b>10</b>	<b>48</b>	<b>132</b>	<b>10</b>	<b>9</b>
$\times \frac{12}{12}$	$\div \frac{108}{12}$	$\div \frac{144}{12}$	$\times \frac{12}{1}$	$\div \frac{36}{12}$	$\div \frac{204}{12}$	$\div \frac{72}{12}$	$\times \frac{12}{14}$	$\times \frac{12}{19}$	$\div \frac{36}{12}$
<b>144</b>	<b>9</b>	<b>12</b>	<b>12</b>	<b>3</b>	<b>17</b>	<b>6</b>	<b>168</b>	<b>228</b>	<b>3</b>
$\times \frac{12}{15}$	$\div \frac{60}{12}$	$\times \frac{6}{12}$	$\div \frac{108}{12}$	$\div \frac{72}{12}$	$\times \frac{10}{12}$	$\div \frac{84}{12}$	$\times \frac{6}{12}$	$\times \frac{12}{7}$	$\div \frac{60}{12}$
<b>180</b>	<b>5</b>	<b>72</b>	<b>9</b>	<b>6</b>	<b>120</b>	<b>7</b>	<b>72</b>	<b>84</b>	<b>5</b>
$\times \frac{11}{12}$	$\times \frac{12}{10}$	$\times \frac{14}{12}$	$\div \frac{24}{12}$	$\times \frac{12}{6}$	$\times \frac{8}{12}$	$\div \frac{48}{12}$	$\div \frac{72}{12}$	$\times \frac{12}{3}$	$\div \frac{132}{12}$
<b>132</b>	<b>120</b>	<b>168</b>	<b>2</b>	<b>72</b>	<b>96</b>	<b>4</b>	<b>6</b>	<b>36</b>	<b>11</b>
$\div \frac{144}{12}$	$\times \frac{6}{12}$	$\div \frac{48}{12}$	$\div \frac{84}{12}$	$\div \frac{204}{12}$	$\div \frac{72}{12}$	$\times \frac{2}{12}$	$\div \frac{204}{12}$	$\div \frac{132}{12}$	$\div \frac{168}{12}$
<b>12</b>	<b>72</b>	<b>4</b>	<b>7</b>	<b>17</b>	<b>6</b>	<b>24</b>	<b>17</b>	<b>11</b>	<b>14</b>

# Opérations Mixtes (G)

Effectuez chaque opération.

$$\div \frac{132}{12} \div \frac{108}{12} \div \frac{108}{12} \div \frac{240}{12} \div \frac{48}{12} \div \frac{216}{12} \times \frac{7}{12} \times \frac{2}{12} \div \frac{48}{12} \times \frac{12}{20}$$

$$\times \frac{12}{13} \times \frac{12}{6} \times \frac{12}{14} \div \frac{120}{12} \div \frac{108}{12} \times \frac{5}{12} \times \frac{12}{12} \div \frac{12}{12} \times \frac{12}{8} \times \frac{12}{18}$$

$$\times \frac{12}{15} \times \frac{12}{6} \div \frac{240}{12} \div \frac{12}{12} \times \frac{12}{7} \div \frac{216}{12} \div \frac{192}{12} \times \frac{16}{12} \div \frac{156}{12} \times \frac{19}{12}$$

$$\div \frac{60}{12} \times \frac{12}{2} \times \frac{5}{12} \times \frac{12}{14} \div \frac{180}{12} \times \frac{12}{13} \div \frac{180}{12} \div \frac{240}{12} \div \frac{72}{12} \times \frac{19}{12}$$

$$\div \frac{36}{12} \div \frac{204}{12} \times \frac{7}{12} \div \frac{96}{12} \div \frac{216}{12} \times \frac{12}{3} \div \frac{108}{12} \times \frac{12}{12} \div \frac{240}{12} \times \frac{12}{8}$$

$$\div \frac{108}{12} \div \frac{72}{12} \div \frac{192}{12} \times \frac{13}{12} \times \frac{9}{12} \times \frac{12}{5} \times \frac{6}{12} \times \frac{12}{19} \times \frac{12}{9} \div \frac{24}{12}$$

$$\times \frac{12}{20} \times \frac{17}{12} \times \frac{12}{8} \div \frac{12}{12} \div \frac{108}{12} \div \frac{96}{12} \div \frac{204}{12} \div \frac{204}{12} \times \frac{12}{14} \div \frac{12}{12}$$

$$\times \frac{16}{12} \div \frac{12}{12} \times \frac{12}{13} \times \frac{11}{12} \times \frac{12}{12} \times \frac{18}{12} \div \frac{132}{12} \times \frac{12}{12} \times \frac{12}{2} \times \frac{12}{5}$$

$$\div \frac{156}{12} \times \frac{12}{13} \div \frac{60}{12} \times \frac{19}{12} \times \frac{12}{17} \div \frac{204}{12} \times \frac{12}{12} \times \frac{12}{3} \div \frac{240}{12} \div \frac{228}{12}$$

$$\div \frac{12}{12} \div \frac{24}{12} \div \frac{12}{12} \times \frac{12}{15} \div \frac{96}{12} \div \frac{108}{12} \times \frac{12}{16} \times \frac{12}{2} \times \frac{2}{12} \div \frac{156}{12}$$



# Opérations Mixtes (H)

Effectuez chaque opération.

$$\times \frac{12}{5} \times \frac{12}{5} \div \frac{180}{12} \times \frac{20}{12} \times \frac{2}{12} \times \frac{10}{12} \div \frac{180}{12} \div \frac{132}{12} \times \frac{19}{12} \times \frac{9}{12}$$

$$\div \frac{204}{12} \div \frac{48}{12} \times \frac{12}{19} \div \frac{72}{12} \times \frac{12}{18} \div \frac{168}{12} \div \frac{120}{12} \div \frac{132}{12} \times \frac{12}{4} \times \frac{12}{10}$$

$$\times \frac{12}{13} \times \frac{19}{12} \div \frac{108}{12} \div \frac{96}{12} \div \frac{168}{12} \div \frac{192}{12} \times \frac{12}{14} \div \frac{108}{12} \times \frac{5}{12} \div \frac{132}{12}$$

$$\div \frac{12}{12} \times \frac{6}{12} \div \frac{12}{12} \times \frac{12}{12} \times \frac{12}{4} \times \frac{20}{12} \div \frac{12}{12} \div \frac{168}{12} \div \frac{240}{12} \div \frac{108}{12}$$

$$\div \frac{216}{12} \times \frac{18}{12} \times \frac{12}{2} \div \frac{240}{12} \div \frac{12}{12} \div \frac{84}{12} \times \frac{15}{12} \div \frac{156}{12} \div \frac{240}{12} \times \frac{12}{7}$$

$$\times \frac{12}{20} \div \frac{132}{12} \times \frac{1}{12} \div \frac{48}{12} \times \frac{15}{12} \div \frac{48}{12} \times \frac{14}{12} \div \frac{156}{12} \div \frac{24}{12} \times \frac{12}{8}$$

$$\times \frac{12}{18} \times \frac{6}{12} \div \frac{48}{12} \div \frac{168}{12} \times \frac{9}{12} \times \frac{12}{5} \div \frac{48}{12} \div \frac{144}{12} \times \frac{5}{12} \div \frac{168}{12}$$

$$\times \frac{12}{1} \times \frac{17}{12} \div \frac{36}{12} \div \frac{132}{12} \times \frac{5}{12} \div \frac{192}{12} \div \frac{120}{12} \div \frac{180}{12} \times \frac{12}{16} \div \frac{240}{12}$$

$$\div \frac{144}{12} \times \frac{15}{12} \div \frac{24}{12} \times \frac{4}{12} \div \frac{168}{12} \times \frac{1}{12} \times \frac{12}{10} \div \frac{60}{12} \div \frac{108}{12} \div \frac{216}{12}$$

$$\times \frac{9}{12} \times \frac{9}{12} \times \frac{12}{5} \times \frac{19}{12} \div \frac{156}{12} \div \frac{96}{12} \times \frac{12}{6} \div \frac{132}{12} \div \frac{168}{12} \div \frac{156}{12}$$

# Opérations Mixtes Solutions (H)

Effectuez chaque opération.

$\times \frac{12}{5}$	$\times \frac{12}{5}$	$\div \frac{180}{12}$	$\times \frac{20}{12}$	$\times \frac{2}{12}$	$\times \frac{10}{12}$	$\div \frac{180}{12}$	$\div \frac{132}{12}$	$\times \frac{19}{12}$	$\times \frac{9}{12}$
<b>60</b>	<b>60</b>	<b>15</b>	<b>240</b>	<b>24</b>	<b>120</b>	<b>15</b>	<b>11</b>	<b>228</b>	<b>108</b>
$\div \frac{204}{12}$	$\div \frac{48}{12}$	$\times \frac{12}{19}$	$\div \frac{72}{12}$	$\times \frac{12}{18}$	$\div \frac{168}{12}$	$\div \frac{120}{12}$	$\div \frac{132}{12}$	$\times \frac{12}{4}$	$\times \frac{12}{10}$
<b>17</b>	<b>4</b>	<b>228</b>	<b>6</b>	<b>216</b>	<b>14</b>	<b>10</b>	<b>11</b>	<b>48</b>	<b>120</b>
$\times \frac{12}{13}$	$\times \frac{19}{12}$	$\div \frac{108}{12}$	$\div \frac{96}{12}$	$\div \frac{168}{12}$	$\div \frac{192}{12}$	$\times \frac{12}{14}$	$\div \frac{108}{12}$	$\times \frac{5}{12}$	$\div \frac{132}{12}$
<b>156</b>	<b>228</b>	<b>9</b>	<b>8</b>	<b>14</b>	<b>16</b>	<b>168</b>	<b>9</b>	<b>60</b>	<b>11</b>
$\div \frac{12}{12}$	$\times \frac{6}{12}$	$\div \frac{12}{12}$	$\times \frac{12}{12}$	$\times \frac{12}{4}$	$\times \frac{20}{12}$	$\div \frac{12}{12}$	$\div \frac{168}{12}$	$\div \frac{240}{12}$	$\div \frac{108}{12}$
<b>1</b>	<b>72</b>	<b>1</b>	<b>144</b>	<b>48</b>	<b>240</b>	<b>1</b>	<b>14</b>	<b>20</b>	<b>9</b>
$\div \frac{216}{12}$	$\times \frac{18}{12}$	$\times \frac{12}{2}$	$\div \frac{240}{12}$	$\div \frac{12}{12}$	$\div \frac{84}{12}$	$\times \frac{15}{12}$	$\div \frac{156}{12}$	$\div \frac{240}{12}$	$\times \frac{12}{7}$
<b>18</b>	<b>216</b>	<b>24</b>	<b>20</b>	<b>1</b>	<b>7</b>	<b>180</b>	<b>13</b>	<b>20</b>	<b>84</b>
$\times \frac{12}{20}$	$\div \frac{132}{12}$	$\times \frac{1}{12}$	$\div \frac{48}{12}$	$\times \frac{15}{12}$	$\div \frac{48}{12}$	$\times \frac{14}{12}$	$\div \frac{156}{12}$	$\div \frac{24}{12}$	$\times \frac{12}{8}$
<b>240</b>	<b>11</b>	<b>12</b>	<b>4</b>	<b>180</b>	<b>4</b>	<b>168</b>	<b>13</b>	<b>2</b>	<b>96</b>
$\times \frac{12}{18}$	$\times \frac{6}{12}$	$\div \frac{48}{12}$	$\div \frac{168}{12}$	$\times \frac{9}{12}$	$\times \frac{12}{5}$	$\div \frac{48}{12}$	$\div \frac{144}{12}$	$\times \frac{5}{12}$	$\div \frac{168}{12}$
<b>216</b>	<b>72</b>	<b>4</b>	<b>14</b>	<b>108</b>	<b>60</b>	<b>4</b>	<b>12</b>	<b>60</b>	<b>14</b>
$\times \frac{12}{1}$	$\times \frac{17}{12}$	$\div \frac{36}{12}$	$\div \frac{132}{12}$	$\times \frac{5}{12}$	$\div \frac{192}{12}$	$\div \frac{120}{12}$	$\div \frac{180}{12}$	$\times \frac{12}{16}$	$\div \frac{240}{12}$
<b>12</b>	<b>204</b>	<b>3</b>	<b>11</b>	<b>60</b>	<b>16</b>	<b>10</b>	<b>15</b>	<b>192</b>	<b>20</b>
$\div \frac{144}{12}$	$\times \frac{15}{12}$	$\div \frac{24}{12}$	$\times \frac{4}{12}$	$\div \frac{168}{12}$	$\times \frac{1}{12}$	$\times \frac{12}{10}$	$\div \frac{60}{12}$	$\div \frac{108}{12}$	$\div \frac{216}{12}$
<b>12</b>	<b>180</b>	<b>2</b>	<b>48</b>	<b>14</b>	<b>12</b>	<b>120</b>	<b>5</b>	<b>9</b>	<b>18</b>
$\times \frac{9}{12}$	$\times \frac{9}{12}$	$\times \frac{12}{5}$	$\times \frac{19}{12}$	$\div \frac{156}{12}$	$\div \frac{96}{12}$	$\times \frac{12}{6}$	$\div \frac{132}{12}$	$\div \frac{168}{12}$	$\div \frac{156}{12}$
<b>108</b>	<b>108</b>	<b>60</b>	<b>228</b>	<b>13</b>	<b>8</b>	<b>72</b>	<b>11</b>	<b>14</b>	<b>13</b>



# Opérations Mixtes (I)

Effectuez chaque opération.

$$\div \frac{132}{12} \div \frac{24}{12} \times \frac{2}{12} \div \frac{24}{12} \times \frac{12}{9} \div \frac{180}{12} \times \frac{9}{12} \times \frac{20}{12} \div \frac{84}{12} \times \frac{18}{12}$$

$$\times \frac{19}{12} \times \frac{12}{8} \times \frac{14}{12} \div \frac{132}{12} \div \frac{12}{12} \times \frac{12}{1} \times \frac{18}{12} \div \frac{60}{12} \div \frac{84}{12} \times \frac{6}{12}$$

$$\times \frac{9}{12} \times \frac{11}{12} \times \frac{12}{10} \times \frac{12}{8} \times \frac{11}{12} \div \frac{228}{12} \div \frac{180}{12} \times \frac{16}{12} \times \frac{12}{13} \div \frac{12}{12}$$

$$\times \frac{7}{12} \times \frac{12}{3} \times \frac{9}{12} \div \frac{156}{12} \div \frac{84}{12} \times \frac{4}{12} \div \frac{24}{12} \times \frac{12}{9} \times \frac{12}{3} \div \frac{240}{12}$$

$$\div \frac{72}{12} \div \frac{132}{12} \times \frac{12}{14} \div \frac{132}{12} \div \frac{108}{12} \div \frac{192}{12} \times \frac{1}{12} \div \frac{180}{12} \div \frac{60}{12} \div \frac{36}{12}$$

$$\times \frac{10}{12} \div \frac{120}{12} \div \frac{120}{12} \times \frac{12}{18} \div \frac{156}{12} \div \frac{12}{12} \times \frac{4}{12} \div \frac{216}{12} \div \frac{108}{12} \div \frac{168}{12}$$

$$\times \frac{3}{12} \div \frac{24}{12} \times \frac{4}{12} \div \frac{36}{12} \div \frac{228}{12} \times \frac{12}{18} \times \frac{13}{12} \div \frac{84}{12} \times \frac{12}{8} \div \frac{168}{12}$$

$$\times \frac{6}{12} \div \frac{180}{12} \times \frac{7}{12} \times \frac{12}{12} \times \frac{17}{12} \div \frac{120}{12} \times \frac{16}{12} \div \frac{108}{12} \times \frac{12}{7} \div \frac{156}{12}$$

$$\times \frac{12}{2} \div \frac{108}{12} \div \frac{120}{12} \div \frac{228}{12} \div \frac{204}{12} \times \frac{12}{17} \times \frac{11}{12} \times \frac{6}{12} \times \frac{12}{9} \times \frac{1}{12}$$

$$\div \frac{84}{12} \div \frac{72}{12} \times \frac{12}{16} \div \frac{24}{12} \div \frac{60}{12} \div \frac{144}{12} \times \frac{12}{5} \times \frac{12}{18} \times \frac{2}{12} \times \frac{12}{11}$$

# Opérations Mixtes Solutions (I)

Effectuez chaque opération.

$\div \frac{132}{12}$	$\div \frac{24}{12}$	$\times \frac{2}{12}$	$\div \frac{24}{12}$	$\times \frac{12}{9}$	$\div \frac{180}{12}$	$\times \frac{9}{12}$	$\times \frac{20}{12}$	$\div \frac{84}{12}$	$\times \frac{18}{12}$
11	2	24	2	108	15	108	240	7	216
$\times \frac{19}{12}$	$\times \frac{12}{8}$	$\times \frac{14}{12}$	$\div \frac{132}{12}$	$\div \frac{12}{12}$	$\times \frac{12}{1}$	$\times \frac{18}{12}$	$\div \frac{60}{12}$	$\div \frac{84}{12}$	$\times \frac{6}{12}$
228	96	168	11	1	12	216	5	7	72
$\times \frac{9}{12}$	$\times \frac{11}{12}$	$\times \frac{12}{10}$	$\times \frac{12}{8}$	$\times \frac{11}{12}$	$\div \frac{228}{12}$	$\div \frac{180}{12}$	$\times \frac{16}{12}$	$\times \frac{12}{13}$	$\div \frac{12}{12}$
108	132	120	96	132	19	15	192	156	1
$\times \frac{7}{12}$	$\times \frac{12}{3}$	$\times \frac{9}{12}$	$\div \frac{156}{12}$	$\div \frac{84}{12}$	$\times \frac{4}{12}$	$\div \frac{24}{12}$	$\times \frac{12}{9}$	$\times \frac{12}{3}$	$\div \frac{240}{12}$
84	36	108	13	7	48	2	108	36	20
$\div \frac{72}{12}$	$\div \frac{132}{12}$	$\times \frac{12}{14}$	$\div \frac{132}{12}$	$\div \frac{108}{12}$	$\div \frac{192}{12}$	$\times \frac{1}{12}$	$\div \frac{180}{12}$	$\div \frac{60}{12}$	$\div \frac{36}{12}$
6	11	168	11	9	16	12	15	5	3
$\times \frac{10}{12}$	$\div \frac{120}{12}$	$\div \frac{120}{12}$	$\times \frac{12}{18}$	$\div \frac{156}{12}$	$\div \frac{12}{12}$	$\times \frac{4}{12}$	$\div \frac{216}{12}$	$\div \frac{108}{12}$	$\div \frac{168}{12}$
120	10	10	216	13	1	48	18	9	14
$\times \frac{3}{12}$	$\div \frac{24}{12}$	$\times \frac{4}{12}$	$\div \frac{36}{12}$	$\div \frac{228}{12}$	$\times \frac{12}{18}$	$\times \frac{13}{12}$	$\div \frac{84}{12}$	$\times \frac{12}{8}$	$\div \frac{168}{12}$
36	2	48	3	19	216	156	7	96	14
$\times \frac{6}{12}$	$\div \frac{180}{12}$	$\times \frac{7}{12}$	$\times \frac{12}{12}$	$\times \frac{17}{12}$	$\div \frac{120}{12}$	$\times \frac{16}{12}$	$\div \frac{108}{12}$	$\times \frac{12}{7}$	$\div \frac{156}{12}$
72	15	84	144	204	10	192	9	84	13
$\times \frac{12}{2}$	$\div \frac{108}{12}$	$\div \frac{120}{12}$	$\div \frac{228}{12}$	$\div \frac{204}{12}$	$\times \frac{12}{17}$	$\times \frac{11}{12}$	$\times \frac{6}{12}$	$\times \frac{12}{9}$	$\times \frac{1}{12}$
24	9	10	19	17	204	132	72	108	12
$\div \frac{84}{12}$	$\div \frac{72}{12}$	$\times \frac{12}{16}$	$\div \frac{24}{12}$	$\div \frac{60}{12}$	$\div \frac{144}{12}$	$\times \frac{12}{5}$	$\times \frac{12}{18}$	$\times \frac{2}{12}$	$\times \frac{12}{11}$
7	6	192	2	5	12	60	216	24	132

## Opérations Mixtes (J)

Effectuez chaque opération.

$$\times \frac{12}{12} \div \frac{168}{12} \div \frac{108}{12} \times \frac{12}{8} \div \frac{36}{12} \div \frac{84}{12} \div \frac{156}{12} \div \frac{72}{12} \div \frac{72}{12} \times \frac{12}{18}$$

$$\times \frac{16}{12} \div \frac{156}{12} \times \frac{12}{7} \div \frac{192}{12} \times \frac{1}{12} \div \frac{84}{12} \times \frac{12}{14} \div \frac{108}{12} \times \frac{4}{12} \times \frac{12}{12}$$

$$\div \frac{72}{12} \div \frac{120}{12} \div \frac{24}{12} \times \frac{20}{12} \times \frac{15}{12} \times \frac{11}{12} \div \frac{168}{12} \times \frac{12}{3} \times \frac{12}{4} \div \frac{24}{12}$$

$$\div \frac{240}{12} \times \frac{12}{3} \times \frac{12}{12} \div \frac{156}{12} \div \frac{60}{12} \div \frac{132}{12} \times \frac{12}{16} \div \frac{84}{12} \times \frac{16}{12} \div \frac{144}{12}$$

$$\div \frac{72}{12} \times \frac{4}{12} \times \frac{12}{15} \times \frac{12}{17} \div \frac{216}{12} \times \frac{12}{11} \div \frac{216}{12} \times \frac{12}{15} \times \frac{12}{3} \times \frac{11}{12}$$

$$\times \frac{12}{9} \times \frac{12}{6} \times \frac{6}{12} \div \frac{72}{12} \div \frac{84}{12} \div \frac{24}{12} \div \frac{60}{12} \div \frac{240}{12} \div \frac{120}{12} \div \frac{12}{12}$$

$$\times \frac{12}{8} \div \frac{228}{12} \times \frac{20}{12} \times \frac{5}{12} \times \frac{6}{12} \times \frac{12}{17} \times \frac{8}{12} \times \frac{11}{12} \times \frac{12}{4} \div \frac{120}{12}$$

$$\times \frac{16}{12} \div \frac{24}{12} \times \frac{12}{12} \times \frac{9}{12} \div \frac{204}{12} \times \frac{12}{19} \times \frac{12}{19} \times \frac{12}{18} \times \frac{12}{11} \times \frac{12}{14}$$

$$\div \frac{228}{12} \times \frac{7}{12} \times \frac{16}{12} \times \frac{14}{12} \times \frac{12}{16} \times \frac{15}{12} \div \frac{120}{12} \times \frac{2}{12} \times \frac{12}{19} \div \frac{204}{12}$$

$$\times \frac{7}{12} \div \frac{144}{12} \div \frac{228}{12} \times \frac{5}{12} \times \frac{11}{12} \times \frac{20}{12} \times \frac{15}{12} \div \frac{24}{12} \div \frac{132}{12} \div \frac{168}{12}$$

# Opérations Mixtes Solutions (J)

Effectuez chaque opération.

$\times \frac{12}{144}$	$\div \frac{168}{14}$	$\div \frac{108}{9}$	$\times \frac{12}{96}$	$\div \frac{36}{3}$	$\div \frac{84}{7}$	$\div \frac{156}{13}$	$\div \frac{72}{6}$	$\div \frac{72}{6}$	$\times \frac{12}{216}$
$\times \frac{16}{192}$	$\div \frac{156}{13}$	$\times \frac{12}{84}$	$\div \frac{192}{16}$	$\times \frac{1}{12}$	$\div \frac{84}{7}$	$\times \frac{12}{168}$	$\div \frac{108}{9}$	$\times \frac{4}{48}$	$\times \frac{12}{144}$
$\div \frac{72}{6}$	$\div \frac{120}{10}$	$\div \frac{24}{2}$	$\times \frac{20}{240}$	$\times \frac{15}{180}$	$\times \frac{11}{132}$	$\div \frac{168}{14}$	$\times \frac{12}{36}$	$\times \frac{12}{48}$	$\div \frac{24}{2}$
$\div \frac{240}{20}$	$\times \frac{12}{36}$	$\times \frac{12}{144}$	$\div \frac{156}{13}$	$\div \frac{60}{5}$	$\div \frac{132}{11}$	$\times \frac{12}{192}$	$\div \frac{84}{7}$	$\times \frac{16}{192}$	$\div \frac{144}{12}$
$\div \frac{72}{6}$	$\times \frac{4}{48}$	$\times \frac{12}{180}$	$\times \frac{12}{204}$	$\div \frac{216}{18}$	$\times \frac{12}{132}$	$\div \frac{216}{18}$	$\times \frac{12}{180}$	$\times \frac{12}{36}$	$\times \frac{11}{132}$
$\times \frac{12}{108}$	$\times \frac{12}{72}$	$\times \frac{6}{72}$	$\div \frac{72}{6}$	$\div \frac{84}{7}$	$\div \frac{24}{2}$	$\div \frac{60}{5}$	$\div \frac{240}{20}$	$\div \frac{120}{10}$	$\div \frac{12}{12}$
$\times \frac{12}{96}$	$\div \frac{228}{19}$	$\times \frac{20}{240}$	$\times \frac{5}{60}$	$\times \frac{6}{72}$	$\times \frac{12}{204}$	$\times \frac{8}{96}$	$\times \frac{11}{132}$	$\times \frac{12}{48}$	$\div \frac{120}{10}$
$\times \frac{16}{192}$	$\div \frac{24}{2}$	$\times \frac{12}{144}$	$\times \frac{9}{108}$	$\div \frac{204}{17}$	$\times \frac{12}{228}$	$\times \frac{12}{228}$	$\times \frac{12}{216}$	$\times \frac{12}{132}$	$\times \frac{12}{168}$
$\div \frac{228}{19}$	$\times \frac{7}{84}$	$\times \frac{16}{192}$	$\times \frac{14}{168}$	$\times \frac{12}{192}$	$\times \frac{15}{180}$	$\div \frac{120}{10}$	$\times \frac{2}{24}$	$\times \frac{12}{228}$	$\div \frac{204}{17}$
$\times \frac{7}{84}$	$\div \frac{144}{12}$	$\div \frac{228}{19}$	$\times \frac{5}{60}$	$\times \frac{11}{132}$	$\times \frac{20}{240}$	$\times \frac{15}{180}$	$\div \frac{24}{2}$	$\div \frac{132}{11}$	$\div \frac{168}{14}$