IXL®

At-home Learning

GRADE 4

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1 Two-digit by two-digit multiplication

Multiply.

$$\begin{array}{r} 35 \\ \times\,42 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times\,85 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times\,43 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times\,37 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \times\,58 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times\,57 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ \times\,46 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times\,65 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times\,44 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times\,93 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times\,64 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times\,92 \\ \hline \end{array}$$

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2 Long division

Divide.

$5 \overline{)544}$　　　　$4 \overline{)688}$　　　　$3 \overline{)228}$

$6 \overline{)630}$　　　　$7 \overline{)905}$　　　　$9 \overline{)752}$

$4 \overline{)733}$　　　　$6 \overline{)564}$　　　　$8 \overline{)997}$

3 Multiples

Write the first four multiples of each number.

4: _____ 4, 8, 12, 16 _____   6: _____

7: _____   9: _____

10: _____   12: _____
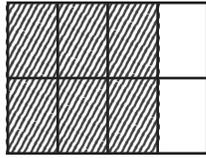
15: _____   30: _____

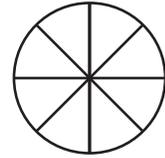80: _____   112: _____
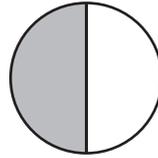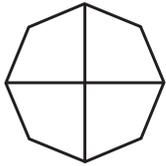
160: _____   205: _____
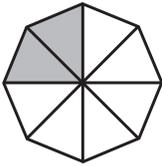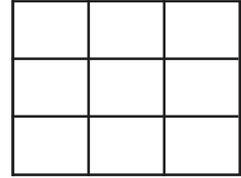
4 Equivalent fractions

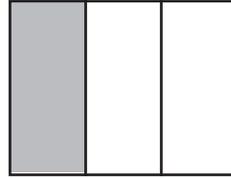**Shade in the equivalent fraction. Write the new fraction.**

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{1}{2} = \underline{\hspace{1.5cm}}$$

$$\frac{2}{8} = \underline{\hspace{1.5cm}}$$

$$\frac{1}{3} = \underline{\hspace{1.5cm}}$$

$$\frac{1}{5} = \underline{\hspace{1.5cm}}$$

$$\frac{2}{6} = \underline{\hspace{1.5cm}}$$
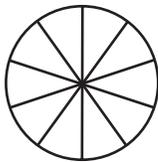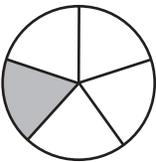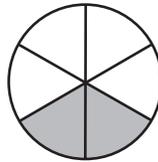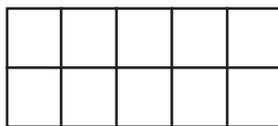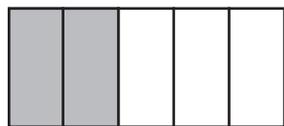
$$\frac{2}{5} = \underline{\hspace{1.5cm}}$$

5 Number patterns

Find the next two numbers in each sequence.

Rule: multiply by 3	6	18	54	162	486

Rule: divide by 2	192	96	48		

Rule: multiply by 5	6	30	150		

Rule: divide by 7	4,802	686	98		

Rule: multiply by 6	6	36	216		

Rule: divide by 4	2,048	512	128		

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5P2

6 Ordering fractions

Write the fractions in order from least to greatest.

$\dfrac{2}{3}$ $\dfrac{1}{5}$ $\dfrac{1}{3}$ $\dfrac{1}{5}$ $\dfrac{1}{3}$ $\dfrac{2}{3}$

$\dfrac{6}{10}$ $\dfrac{4}{5}$ $\dfrac{4}{10}$ _____   _____   _____

$\dfrac{5}{6}$ $\dfrac{2}{5}$ $\dfrac{2}{12}$ _____   _____   _____

$\dfrac{2}{5}$ $\dfrac{3}{10}$ $\dfrac{1}{4}$ _____   _____   _____

$\dfrac{3}{4}$ $\dfrac{2}{3}$ $\dfrac{5}{6}$ _____   _____   _____

Challenge yourself! Write the fractions in order from least to greatest.

$\dfrac{3}{4}$ $\dfrac{5}{8}$ $\dfrac{1}{2}$ $\dfrac{4}{12}$ _____   _____   _____   _____

$\dfrac{2}{3}$ $\dfrac{5}{12}$ $\dfrac{2}{6}$ $\dfrac{1}{4}$ _____   _____   _____   _____

7 Adding fractions

Add.

$$\frac{2}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$$

$$\frac{1}{4} + \frac{2}{4} = \underline{\hspace{2cm}}$$

$$\frac{1}{5} + \frac{3}{5} = \underline{\hspace{2cm}}$$

$$\frac{4}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$$

$$\frac{5}{9} + \frac{3}{9} = \underline{\hspace{2cm}}$$

$$\frac{1}{6} + \frac{4}{6} = \underline{\hspace{2cm}}$$

$$\frac{4}{10} + \frac{4}{10} = \underline{\hspace{2cm}}$$

$$\frac{3}{7} + \frac{2}{7} = \underline{\hspace{2cm}}$$

$$\frac{4}{11} + \frac{5}{11} = \underline{\hspace{2cm}}$$

$$\frac{1}{5} + \frac{2}{5} = \underline{\hspace{2cm}}$$

$$\frac{1}{9} + \frac{4}{9} = \underline{\hspace{2cm}}$$

$$\frac{7}{12} + \frac{4}{12} = \underline{\hspace{2cm}}$$

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8 Subtracting fractions

Subtract.

$$\frac{2}{3} - \frac{1}{3} = \underline{\hspace{2cm}}$$

$$\frac{6}{8} - \frac{2}{8} = \underline{\hspace{2cm}}$$

$$\frac{4}{5} - \frac{2}{5} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} - \frac{2}{4} = \underline{\hspace{2cm}}$$

$$\frac{3}{6} - \frac{1}{6} = \underline{\hspace{2cm}}$$

$$\frac{8}{10} - \frac{3}{10} = \underline{\hspace{2cm}}$$

$$\frac{4}{7} - \frac{2}{7} = \underline{\hspace{2cm}}$$

$$\frac{7}{9} - \frac{2}{9} = \underline{\hspace{2cm}}$$

$$\frac{10}{12} - \frac{4}{12} = \underline{\hspace{2cm}}$$

$$\frac{4}{8} - \frac{1}{8} = \underline{\hspace{2cm}}$$

$$\frac{9}{10} - \frac{5}{10} = \underline{\hspace{2cm}}$$

$$\frac{9}{11} - \frac{2}{11} = \underline{\hspace{2cm}}$$

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9 Multiplying fractions

Multiply. Write your answer as a mixed number or a whole number.

$5 \times \dfrac{2}{3}$ = _____

$2 \times \dfrac{7}{9}$ = _____

$3 \times \dfrac{4}{7}$ = _____

$7 \times \dfrac{5}{8}$ = _____

$5 \times \dfrac{3}{4}$ = _____

$8 \times \dfrac{5}{8}$ = _____

$11 \times \dfrac{2}{7}$ = _____

$5 \times \dfrac{5}{12}$ = _____

$7 \times \dfrac{7}{10}$ = _____

$10 \times \dfrac{2}{9}$ = _____

$4 \times \dfrac{5}{11}$ = _____

$8 \times \dfrac{4}{7}$ = _____

10 Mixed fraction operations

Add, subtract, or multiply. Regroup, if necessary.

$4\frac{3}{8} + 2\frac{7}{8} = $ **$7\frac{2}{8}$**

$\frac{7}{10} - \frac{3}{10} = $ _____

$3 \times \frac{4}{6} = $ _____

$4\frac{2}{3} + \frac{2}{3} = $ _____

$5\frac{3}{4} - 2\frac{1}{4} = $ _____

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

$7\frac{5}{7} + 4\frac{4}{7} = $ _____

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

$9 \times \frac{5}{12} = $ _____

$8\frac{2}{3} + 5\frac{1}{3} = $ _____

$12\frac{3}{10} - 4\frac{7}{10} = $ _____

$8 \times \frac{4}{7} = $ _____

11 Answer key

PAGE 1

$$\begin{array}{r} 35 \\ \times\ 42 \\ \hline 1{,}470 \end{array}\qquad \begin{array}{r} 29 \\ \times\ 85 \\ \hline 2{,}465 \end{array}\qquad \begin{array}{r} 84 \\ \times\ 43 \\ \hline 3{,}612 \end{array}$$

$$\begin{array}{r} 73 \\ \times\ 37 \\ \hline 2{,}701 \end{array}\qquad \begin{array}{r} 27 \\ \times\ 58 \\ \hline 1{,}566 \end{array}\qquad \begin{array}{r} 39 \\ \times\ 57 \\ \hline 2{,}223 \end{array}$$

$$\begin{array}{r} 79 \\ \times\ 46 \\ \hline 3{,}634 \end{array}\qquad \begin{array}{r} 49 \\ \times\ 65 \\ \hline 3{,}185 \end{array}\qquad \begin{array}{r} 68 \\ \times\ 44 \\ \hline 2{,}992 \end{array}$$

$$\begin{array}{r} 67 \\ \times\ 93 \\ \hline 6{,}231 \end{array}\qquad \begin{array}{r} 77 \\ \times\ 64 \\ \hline 4{,}928 \end{array}\qquad \begin{array}{r} 83 \\ \times\ 92 \\ \hline 7{,}636 \end{array}$$

PAGE 2

$$5\overline{)544}\ \ ^{108\,R4}\qquad 4\overline{)688}\ \ ^{172}\qquad 3\overline{)228}\ \ ^{76}$$

$$6\overline{)630}\ \ ^{105}\qquad 7\overline{)905}\ \ ^{129\,R2}\qquad 9\overline{)752}\ \ ^{83\,R5}$$

$$4\overline{)733}\ \ ^{183\,R1}\qquad 6\overline{)564}\ \ ^{94}\qquad 8\overline{)997}\ \ ^{124\,R5}$$

PAGE 3

4: 4, 8, 12, 16
6: 6, 12, 18, 24
7: 7, 14, 21, 28
9: 9, 18, 27, 36
10: 10, 20, 30, 40
12: 12, 24, 36, 48
15: 15, 30, 45, 60
30: 30, 60, 90, 120
80: 80, 160, 240, 320
112: 112, 224, 336, 448
160: 160, 320, 480, 640, 800
205: 205, 410, 615, 820

PAGE 4

$$\frac{3}{4}=\frac{6}{8}\qquad \frac{1}{2}=\frac{4}{8}$$

$$\frac{2}{8}=\frac{1}{4}\qquad \frac{1}{3}=\frac{3}{9}$$

$$\frac{1}{5}=\frac{2}{10}\qquad \frac{2}{6}=\frac{1}{3}$$

$$\frac{2}{5}=\frac{4}{10}$$

PAGE 5

6	18	54	162	486
192	96	48	24	12
6	30	150	750	3,750
4,802	686	98	14	2
6	36	216	1,296	7,776
2,048	512	128	32	8

PAGE 6

$$\frac{1}{5}\quad \frac{1}{3}\quad \frac{2}{3}$$

$$\frac{4}{10}\quad \frac{6}{10}\quad \frac{4}{5}$$

$$\frac{2}{12}\quad \frac{2}{5}\quad \frac{5}{6}$$

$$\frac{1}{4}\quad \frac{3}{10}\quad \frac{2}{5}$$

$$\frac{2}{3}\quad \frac{3}{4}\quad \frac{5}{6}$$

$$\frac{4}{12}\quad \frac{1}{2}\quad \frac{5}{8}\quad \frac{3}{4}$$

$$\frac{1}{4}\quad \frac{2}{6}\quad \frac{5}{12}\quad \frac{2}{3}$$

PAGE 7

$$\frac{2}{8}+\frac{3}{8}=\frac{5}{8}\qquad \frac{1}{4}+\frac{2}{4}=\frac{3}{4}$$

$$\frac{1}{5}+\frac{3}{5}=\frac{4}{5}\qquad \frac{4}{8}+\frac{3}{8}=\frac{7}{8}$$

$$\frac{5}{9}+\frac{3}{9}=\frac{8}{9}\qquad \frac{1}{6}+\frac{4}{6}=\frac{5}{6}$$

$$\frac{4}{10}+\frac{4}{10}=\frac{8}{10}\ \text{or}\ \frac{4}{5}\qquad \frac{3}{7}+\frac{2}{7}=\frac{5}{7}$$

$$\frac{4}{11}+\frac{5}{11}=\frac{9}{11}\qquad \frac{1}{5}+\frac{2}{5}=\frac{3}{5}$$

$$\frac{1}{9}+\frac{4}{9}=\frac{5}{9}\qquad \frac{7}{12}+\frac{4}{12}=\frac{11}{12}$$

PAGE 8

$$\frac{2}{3}-\frac{1}{3}=\frac{1}{3}\qquad \frac{6}{8}-\frac{2}{8}=\frac{4}{8}\ \text{or}\ \frac{1}{2}$$

$$\frac{4}{5}-\frac{2}{5}=\frac{2}{5}\qquad \frac{3}{4}-\frac{2}{4}=\frac{1}{4}$$

$$\frac{3}{6}-\frac{1}{6}=\frac{2}{6}\ \text{or}\ \frac{1}{3}\qquad \frac{8}{10}-\frac{3}{10}=\frac{5}{10}\ \text{or}\ \frac{1}{2}$$

$$\frac{4}{7}-\frac{2}{7}=\frac{2}{7}\qquad \frac{7}{9}-\frac{2}{9}=\frac{5}{9}$$

$$\frac{10}{12}-\frac{4}{12}=\frac{6}{12}\ \text{or}\ \frac{1}{2}\qquad \frac{4}{8}-\frac{1}{8}=\frac{3}{8}$$

$$\frac{9}{10}-\frac{5}{10}=\frac{4}{10}\ \text{or}\ \frac{2}{5}\qquad \frac{9}{11}-\frac{2}{11}=\frac{7}{11}$$

PAGE 9

$$5\times\frac{2}{3}=3\,\frac{1}{3}\qquad 2\times\frac{7}{9}=1\,\frac{5}{9}$$

$$3\times\frac{4}{7}=1\,\frac{5}{7}\qquad 7\times\frac{5}{8}=4\,\frac{3}{8}$$

$$5\times\frac{3}{4}=3\,\frac{3}{4}\qquad 8\times\frac{5}{8}=5$$

$$11\times\frac{2}{7}=3\,\frac{1}{7}\qquad 5\times\frac{5}{12}=2\,\frac{1}{12}$$

$$7\times\frac{7}{10}=4\,\frac{9}{10}\qquad 10\times\frac{2}{9}=2\,\frac{2}{9}$$

$$4\times\frac{5}{11}=1\,\frac{9}{11}\qquad 8\times\frac{4}{7}=4\,\frac{4}{7}$$

PAGE 10

$$4\,\frac{3}{8}+2\,\frac{7}{8}=7\,\frac{2}{8}\ \text{or}\ 7\,\frac{1}{4}$$

$$\frac{7}{10}-\frac{3}{10}=\frac{4}{10}\ \text{or}\ \frac{2}{5}$$

$$3\times\frac{4}{6}=\frac{12}{6}\ \text{or}\ 2$$

$$4\,\frac{2}{3}+\frac{2}{3}=5\,\frac{1}{3}$$

$$5\,\frac{3}{4}-2\,\frac{1}{4}=3\,\frac{2}{4}\ \text{or}\ 3\,\frac{1}{2}$$

$$7\times\frac{2}{8}=\frac{14}{8}\ \text{or}\ 1\,\frac{3}{4}$$

$$7\,\frac{5}{7}+4\,\frac{4}{7}=12\,\frac{2}{7}$$

12 Answer key

$6 \frac{1}{2} - 1 \frac{1}{2} = 5$

$9 \times \frac{5}{12} = \frac{45}{12}$ or $3 \frac{3}{4}$

$8 \frac{2}{3} + 5 \frac{1}{3} = 14$

$12 \frac{3}{10} - 4 \frac{7}{10} = 7 \frac{6}{10}$ or $7 \frac{3}{5}$

$8 \times \frac{4}{7} = \frac{32}{7}$ or $4 \frac{4}{7}$