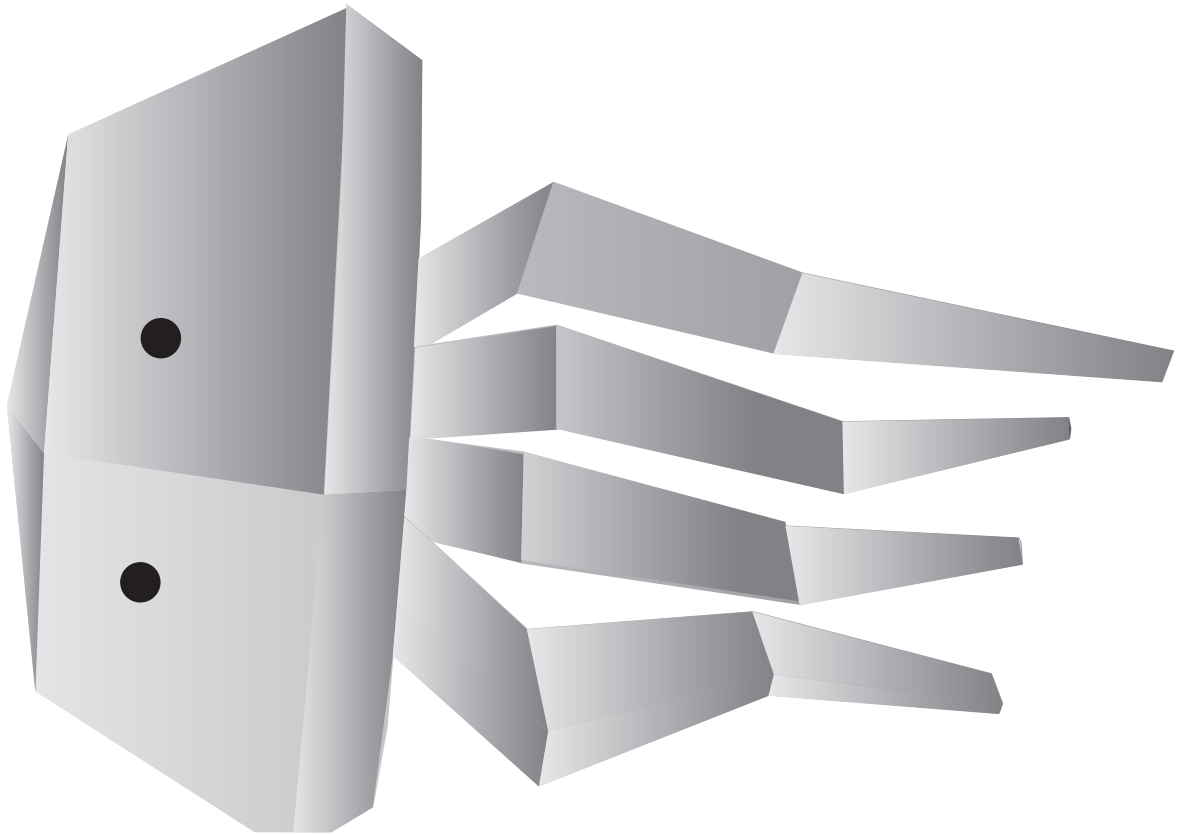


SPRING 2020 | PACK #1



At-home Learning



GRADE 4

For more print materials, check out
IXL's workbook series on [Amazon.com](https://www.amazon.com)!

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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For more practice, visit [IXL.com](https://www.ixl.com) or the IXL mobile app and enter this code in the search bar.

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: _____

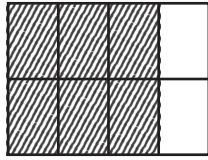
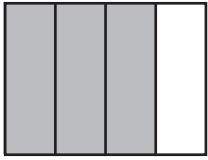
160: _____

205: _____

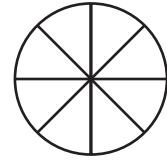
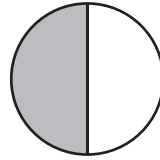


4 Equivalent fractions

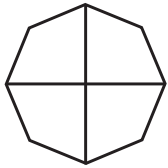
Shade in the equivalent fraction. Write the new fraction.



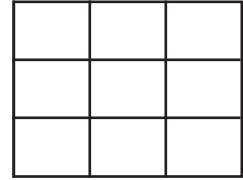
$$\frac{3}{4} = \frac{6}{8}$$



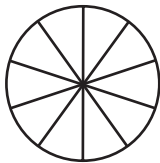
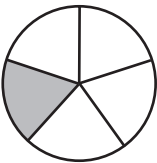
$$\frac{1}{2} = \underline{\hspace{2cm}}$$



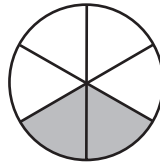
$$\frac{2}{8} = \underline{\hspace{2cm}}$$



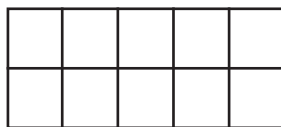
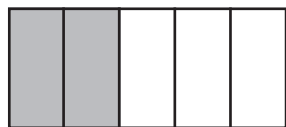
$$\frac{1}{3} = \underline{\hspace{2cm}}$$



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



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



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



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		
-------------------	-------	-----	-----	--	--

6 Ordering fractions

Write the fractions in order from least to greatest.

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

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

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

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

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

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

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

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



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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PDU

8

Subtracting fractions

Subtract.

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

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

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

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

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

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

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

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

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

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

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

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

9 Multiplying fractions

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

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

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

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

$$7 \times \frac{5}{8} = \underline{\hspace{2cm}}$$

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

$$8 \times \frac{5}{8} = \underline{\hspace{2cm}}$$

$$11 \times \frac{2}{7} = \underline{\hspace{2cm}}$$

$$5 \times \frac{5}{12} = \underline{\hspace{2cm}}$$

$$7 \times \frac{7}{10} = \underline{\hspace{2cm}}$$

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

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

$$8 \times \frac{4}{7} = \underline{\hspace{2cm}}$$

10 Mixed fraction operations

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

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

$$\frac{7}{10} - \frac{3}{10} = \underline{\hspace{2cm}}$$

$$3 \times \frac{4}{6} = \underline{\hspace{2cm}}$$

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

$$5\frac{3}{4} - 2\frac{1}{4} = \underline{\hspace{2cm}}$$

$$7 \times \frac{2}{8} = \underline{\hspace{2cm}}$$

$$7\frac{5}{7} + 4\frac{4}{7} = \underline{\hspace{2cm}}$$

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

$$9 \times \frac{5}{12} = \underline{\hspace{2cm}}$$

$$8\frac{2}{3} + 5\frac{1}{3} = \underline{\hspace{2cm}}$$

$$12\frac{3}{10} - 4\frac{7}{10} = \underline{\hspace{2cm}}$$

$$8 \times \frac{4}{7} = \underline{\hspace{2cm}}$$

11

Answer key

PAGE 1

$$\begin{array}{r} 35 \\ \times 42 \\ \hline 1,470 \end{array}$$

$$\begin{array}{r} 29 \\ \times 85 \\ \hline 2,465 \end{array}$$

$$\begin{array}{r} 84 \\ \times 43 \\ \hline 3,612 \end{array}$$

$$\begin{array}{r} 73 \\ \times 37 \\ \hline 2,701 \end{array}$$

$$\begin{array}{r} 27 \\ \times 58 \\ \hline 1,566 \end{array}$$

$$\begin{array}{r} 39 \\ \times 57 \\ \hline 2,223 \end{array}$$

$$\begin{array}{r} 79 \\ \times 46 \\ \hline 3,634 \end{array}$$

$$\begin{array}{r} 49 \\ \times 65 \\ \hline 3,185 \end{array}$$

$$\begin{array}{r} 68 \\ \times 44 \\ \hline 2,992 \end{array}$$

$$\begin{array}{r} 67 \\ \times 93 \\ \hline 6,231 \end{array}$$

$$\begin{array}{r} 77 \\ \times 64 \\ \hline 4,928 \end{array}$$

$$\begin{array}{r} 83 \\ \times 92 \\ \hline 7,636 \end{array}$$

PAGE 2

$$108 \text{ R4} \\ 5 \overline{) 544}$$

$$172 \\ 4 \overline{) 688}$$

$$76 \\ 3 \overline{) 228}$$

$$105 \\ 6 \overline{) 630}$$

$$129 \text{ R2} \\ 7 \overline{) 905}$$

$$83 \text{ R5} \\ 9 \overline{) 752}$$

$$183 \text{ R1} \\ 4 \overline{) 733}$$

$$94 \\ 6 \overline{) 564}$$

$$124 \text{ R5} \\ 8 \overline{) 997}$$

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

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

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{2}{8} = \frac{1}{4}$$

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

$$\frac{1}{5} = \frac{2}{10}$$

$$\frac{2}{6} = \frac{1}{3}$$

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

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

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

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

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

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

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

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

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

PAGE 7

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

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

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

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

$$\frac{5}{9} + \frac{3}{9} = \frac{8}{9}$$

$$\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$$

$$\frac{4}{10} + \frac{4}{10} = \frac{8}{10} \text{ or } \frac{4}{5}$$

$$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$$

$$\frac{4}{11} + \frac{5}{11} = \frac{9}{11}$$

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

$$\frac{1}{9} + \frac{4}{9} = \frac{5}{9}$$

$$\frac{7}{12} + \frac{4}{12} = \frac{11}{12}$$

PAGE 8

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

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

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

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

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

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

$$\frac{4}{7} - \frac{2}{7} = \frac{2}{7}$$

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

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

$$\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$$

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

$$\frac{9}{11} - \frac{2}{11} = \frac{7}{11}$$

PAGE 9

$$5 \times \frac{2}{3} = 3 \frac{1}{3}$$

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

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

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

$$5 \times \frac{3}{4} = 3 \frac{3}{4}$$

$$8 \times \frac{5}{8} = 5$$

$$11 \times \frac{2}{7} = 3 \frac{1}{7}$$

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

$$7 \times \frac{7}{10} = 4 \frac{9}{10}$$

$$10 \times \frac{2}{9} = 2 \frac{2}{9}$$

$$4 \times \frac{5}{11} = 1 \frac{9}{11}$$

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

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

PAGE 10, *continued*

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

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

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

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

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