

**Set 12A** [  $2 \times 12, 12 \times 2, 3 \times 12, 12 \times 3$  ] Practice on facts in Set 12A

$$\frac{2}{X_{12}}, \frac{4}{X_5}, \frac{7}{X_6}, \frac{4}{X_6}, \frac{7}{X_4}, \frac{3}{X_{12}}, \frac{12}{X_2}, \frac{5}{X_4}, \frac{6}{X_5}, \frac{12}{X_3}$$

$$\frac{4}{X_6} \quad \frac{6}{X_4} \quad \frac{4}{X_7} \quad \frac{12}{X_3} \quad \frac{7}{X_5} \quad \frac{5}{X_4} \quad \frac{12}{X_2} \quad \frac{3}{X_{12}} \quad \frac{5}{X_7} \quad \frac{2}{X_{12}}$$

$$\frac{6}{X_4} \quad \frac{3}{X_{12}} \quad \frac{5}{X_4} \quad \frac{5}{X_6} \quad \frac{12}{X_2} \quad \frac{4}{X_5} \quad \frac{2}{X_{12}} \quad \frac{4}{X_6} \quad \frac{7}{X_4} \quad \frac{12}{X_3}$$

$$\underline{x_5}^4 \quad \underline{x_6}^5 \quad \underline{x_7}^4 \quad \underline{x_3}^{12} \quad \underline{x_2}^{12} \quad \underline{x_{12}}^3 \quad \underline{x_5}^6 \quad \underline{x_{12}}^{24} \quad \underline{x_7}^6 \quad \underline{x_4}^6$$

**Set 12A** [  $2 \times 12, 12 \times 2, 3 \times 12, 12 \times 3$  ] Practice on facts in Set 12A

X<sub>12</sub>    X<sub>5</sub>    X<sub>6</sub>    X<sub>6</sub>    X<sub>4</sub>    X<sub>12</sub>    X<sub>2</sub>    X<sub>4</sub>    X<sub>5</sub>    X<sub>3</sub>

X<sub>6</sub>    X<sub>4</sub>    X<sub>7</sub>    X<sub>3</sub>    X<sub>5</sub>    X<sub>4</sub>    X<sub>2</sub>    X<sub>12</sub>    X<sub>7</sub>    X<sub>12</sub>

X4   X12   X4   X6   X2   X5   X12   X6   X4   X3

$$x_5^4 x_6^5 x_7^4 x_3^{12} x_2^{12} x_{12}^3 x_5^6 x_{12}^2 x_7^6 x_4^6$$

One Minute Timing on facts in Set 12 A

2	4	4	4	7	12	7	7	3	4
<u>X12</u>	<u>X5</u>	<u>X8</u>	<u>X6</u>	<u>X8</u>	<u>X0</u>	<u>X5</u>	<u>X6</u>	<u>X12</u>	<u>X7</u>
12	6	5	7	6	8	8	3	7	12
<u>X3</u>	<u>X2</u>	<u>X6</u>	<u>X4</u>	<u>X4</u>	<u>X5</u>	<u>X2</u>	<u>X2</u>	<u>X3</u>	<u>X2</u>
6	9	5	6	12	3	6	9	5	4
<u>X7</u>	<u>X3</u>	<u>X4</u>	<u>X8</u>	<u>X2</u>	<u>X12</u>	<u>X5</u>	<u>X5</u>	<u>X7</u>	<u>X4</u>
12	7	8	6	8	8	8	2	5	3
<u>X3</u>	<u>X9</u>	<u>X7</u>	<u>X3</u>	<u>X4</u>	<u>X6</u>	<u>X9</u>	<u>X12</u>	<u>X8</u>	<u>X8</u>

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_

One Minute Timing on facts in Set 12 A

2	4	4	4	7	12	7	7	3	4
<u>X12</u>	<u>X5</u>	<u>X8</u>	<u>X6</u>	<u>X8</u>	<u>X0</u>	<u>X5</u>	<u>X6</u>	<u>X12</u>	<u>X7</u>
12	6	5	7	6	8	8	3	7	12
<u>X3</u>	<u>X2</u>	<u>X6</u>	<u>X4</u>	<u>X4</u>	<u>X5</u>	<u>X2</u>	<u>X2</u>	<u>X3</u>	<u>X2</u>
6	9	5	6	12	3	6	9	5	4
<u>X7</u>	<u>X3</u>	<u>X4</u>	<u>X8</u>	<u>X2</u>	<u>X12</u>	<u>X5</u>	<u>X5</u>	<u>X7</u>	<u>X4</u>
12	7	8	6	8	8	8	2	5	3
<u>X3</u>	<u>X9</u>	<u>X7</u>	<u>X3</u>	<u>X4</u>	<u>X6</u>	<u>X9</u>	<u>X12</u>	<u>X8</u>	<u>X8</u>

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_

Mastering Math Facts 10-12

M-2

Name \_\_\_\_\_

## Set 12B [ 4 x 12, 12 x 4, 5 x 12, 12 x 5 ] Practice on facts in Set 12 B

12    4    7    3    5    12    12    4    2    5  
X 4    X 6    X 6    X 12    X 4    X 5    X 2    X 12    X 12    X 12

5 12 4 4 7 3 12 2 12 4  
X 12 X 4 X 5 X 12 X 5 X 12 X 3 X 12 X 5 X 12

5      5      2      6      12      12      12      12      3      5  
X 7    X 4    X 12    X 4    X 5    X 3    X 4    X 2    X 12    X 12

4 6 4 12 4 12 6 12 5 12  
 $\times 6 \quad \times 7 \quad \times 5 \quad \times 5 \quad \times 12 \quad \times 2 \quad \times 4 \quad \times 4 \quad \times 12 \quad \times 3$

Mastering Math Facts 10-12

M-2

Name \_\_\_\_\_

**Set 12B** [  $4 \times 12$ ,  $12 \times 4$ ,  $5 \times 12$ ,  $12 \times 5$  ] Practice on facts in Set 12 B

12      4      7      3      5      12      12      4      2      5  
 $\underline{X4}$      $\underline{X6}$      $\underline{X6}$      $\underline{X12}$      $\underline{X4}$      $\underline{X5}$      $\underline{X2}$      $\underline{X12}$      $\underline{X12}$      $\underline{X12}$

$$5 \quad 12 \quad 4 \quad 4 \quad 7 \quad 3 \quad 12 \quad 2 \quad 12 \quad 4 \\ X\cancel{12} \quad X4 \quad X\cancel{5} \quad X\cancel{12} \quad X\cancel{5} \quad X\cancel{12} \quad X\cancel{3} \quad X\cancel{12} \quad X\cancel{5} \quad X\cancel{12}$$

5 5 2 6 12 12 12 12 3 5  
X7 X4 X12 X4 X5 X3 X4 X2 X12 X12

4      6      4      12      4      12      6      12      5      12  
 X 6    X 7    X 5    X 5    X 12    X 2    X 4    X 4    X 12    X 3

### **One Minute Timing on facts in Set 12 B**

7      12      7      2      4      3      4      4      4      7  
X 8    X 0    X 6    X 12    X 5    X 7    X 6    X 12    X 7    X 5

X4    X5    X12    X3    X2    X6    X5    X4    X3    X12    X12

12      3      9      6      12      5      6      5      4      6  
X2      X9      X5      X7      X3      X4      X8      X7      X4      X5

12      8      9      12      7      8      6      12      3      5  
X4    X6    X4    X5    X9    X7    X3    X4    X8    X12

1 minute timing goal \_\_\_\_\_

### Number of problems correct

### One Minute Timing on facts in Set 12 B

X8    X0    X6    X12    X5    X7    X6    X12    X7    X5

X<sub>4</sub><sup>6</sup>    X<sub>5</sub><sup>12</sup>    X<sub>12</sub><sup>3</sup>    X<sub>3</sub><sup>2</sup>    X<sub>2</sub><sup>6</sup>    X<sub>6</sub><sup>5</sup>    X<sub>4</sub><sup>7</sup>    X<sub>3</sub><sup>7</sup>    X<sub>12</sub><sup>5</sup>    X<sub>12</sub><sup>4</sup>

X2    X9    X5    X7    X3    X4    X8    X7    X4    X5

X4   X6   X4   X5   X9   X7   X3   X4   X8   X12

1 minute timing goal

### Number of problems correct

Name

Set 12C [ 6 x 12, 12 x 6, 7 x 12, 12 x 7 ] Practice on facts in Set 12 C

$$X_{12} \quad X_4 \quad X_6 \quad X_{12} \quad X_7 \quad X_{12} \quad X_2 \quad X_{12} \quad X_6 \quad X_{12}$$

$$\frac{7}{X_4}, \frac{5}{X_{12}}, \frac{4}{X_{12}}, \frac{3}{X_{12}}, \frac{12}{X_7}, \frac{12}{X_6}, \frac{12}{X_4}, \frac{12}{X_5}, \frac{2}{X_{12}}, \frac{6}{X_{12}}$$

$$\frac{12}{X_4} \quad \frac{12}{X_5} \quad \frac{5}{X_{12}} : \frac{2}{X_{12}} \quad \frac{7}{X_{12}} \quad \frac{12}{X_7} \quad \frac{12}{X_6} \quad \frac{12}{X_5} \quad \frac{12}{X_3} \quad \frac{12}{X_2}$$

$$\frac{7}{X_{12}}, \frac{12}{X_3}, \frac{4}{X_{12}}, \frac{6}{X_{12}}, \frac{12}{X_7}, \frac{5}{X_4}, \frac{12}{X_6}, \frac{7}{X_{12}}, \frac{6}{X_5}, \frac{6}{X_{12}}$$

### Mastering Math Facts 10-12

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Nature

Set 12C [ 6 x 12, 12 x 6, 7 x 12, 12 x 7 ] Practice on facts in Set 12 C

$$\underline{X_{12}}^3 \quad \underline{X_4}^{12} \quad \underline{X_6}^4 \quad X_{12}^5 \quad X_{12}^{12} \quad X_7^7 \quad X_{12}^{12} \quad X_2^{12} \quad X_{12}^6 \quad X_6^{12} \quad X_{12}^4$$

$$\frac{7}{x_4}, \frac{5}{x_{12}}, \frac{4}{x_{12}}, \frac{3}{x_{12}}, \frac{12}{x_7}, \frac{12}{x_6}, \frac{12}{x_4}, \frac{12}{x^5}, \frac{2}{x_{12}}, \frac{6}{x_{12}}$$

$$\frac{12}{X_4} \quad \frac{12}{X_5} \quad \frac{5}{X_{12}} \quad \frac{2}{X_{12}} \quad \frac{7}{X_{12}} \quad \frac{12}{X_7} \quad \frac{12}{X_6} \quad \frac{12}{X_5} \quad \frac{12}{X_3} \quad \frac{12}{X_2}$$

$$\underline{x_{12}} \quad \underline{x_3} \quad \underline{x_{12}} \quad \underline{x_{12}} \quad \underline{x_7} \quad x_4 \quad x_6 \quad \underline{x_{12}} \quad x_5 \quad x_{12}$$

One Minute Timing on facts in Set 14

5      6      12      7      7      9      2      7      9      4  
X<sub>2</sub>    X<sub>12</sub>    X<sub>2</sub>    X<sub>12</sub>    X<sub>2</sub>    X<sub>9</sub>    X<sub>5</sub>    X<sub>7</sub>    X<sub>8</sub>    X<sub>12</sub>

$$x_3 x_{12} x_6 x_5 x_7 x_8 x_6 x_0 x_3 x_3$$

$$x_7 - x_{12} + x_6 - x_3 + x_1 - x_{12} + x_5 - x_1 + x_4 - x_2 = 0$$

$x_2 \quad x_9 \quad x_7 \quad x_{12} \quad x_{12} \quad x_{12} \quad x_6 \quad x_6 \quad x_7 \quad x_{12}$

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_

One Minute Timing on facts in Set 12 C

5 6 12 7 . 7 9 2 7 9 4  
 $x_2$   $x_{12}$   $x_2$   $x_{12}$   $x_2$   $x_9$   $x_5$   $x_7$   $x_8$   $x_{12}$

12 1 3 12 12 8 12 12 7 3  
 $x_3$   $x_{12}$   $x_6$   $x_5$   $x_7$   $x_8$   $x_6$   $x_0$   $x_3$   $x_3$

$$x_7^{\phantom{-}12} x_{12}^{\phantom{-}2} x_5^{\phantom{-}12} x_3^{\phantom{-}6} x_1^{\phantom{-}12} x_{12}^{\phantom{-}0} x_5^{\phantom{-}5} x_1^{\phantom{-}9} x_4^{\phantom{-}12} x_2^{\phantom{-}4}$$

$x_2 \quad x_9 \quad x_7 \quad x_{12} \quad x_{12} \quad x_{12} \quad x_6 \quad x_6 \quad x_7 \quad x_{12}$

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_

**Set 12D** [  $8 \times 12, 12 \times 8, 9 \times 12, 12 \times 9$  ] Practice on facts in Set 12 D

8      12      9      12      5      6      12      12      4      7  
X 12    X 6    X 12    X 2    X 12    X 12    X 8    X 9    X 12    X 12

X4    X8    X3    X6    X12    X9    X12    X7    X6    X5

$$\frac{9}{X \ 12} \quad \frac{12}{X \ 7} \quad \frac{12}{X \ 4} \quad \frac{12}{X \ 5} \quad \frac{7}{X \ 12} \quad \frac{12}{X \ 9} \quad \frac{8}{X \ 12} \quad \frac{5}{X \ 12} \quad \frac{2}{X \ 12} \quad \frac{9}{X \ 12}$$

6      12      12      7      8      9      3      12      12      2  
X12    X9    X8    X12    X12    X12    X12    X8    X7    X12

**Set 12D** [ 8 x 12, 12 x 8, 9 x 12, 12 x 9 ] Practice on facts in Set 12 D

8      12      9      12      5      6      12      12      4      7  
X 12    X 6    X 12    X 2    X 12    X 12    X 8    X 9    X 12    X 12

X4    X8    X3    X6    X12    X9    X12    X7    X6    X5

9      12      12      12      7      12      8      5      2      9  
X 12    X 7    X 4    X 5    X 12    X 9    X 12    X 12    X 12    X 12

X<sub>12</sub>    X<sub>9</sub>    X<sub>8</sub>    X<sub>12</sub>    X<sub>12</sub>    X<sub>12</sub>    X<sub>12</sub>    X<sub>8</sub>    X<sub>7</sub>    X<sub>12</sub>

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One Minute Timing on facts in Set 12 D

5 <u>X2</u>	9 <u>X12</u>	6 <u>X5</u>	0 <u>X12</u>	8 <u>X6</u>	12 <u>X9</u>	5 <u>X6</u>	6 <u>X7</u>	1 <u>X12</u>	8 <u>X12</u>
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12 <u>X6</u>	5 <u>X7</u>	3 <u>X5</u>	12 <u>X8</u>	7 <u>X12</u>	4 <u>X8</u>	12 <u>X5</u>	4 <u>X12</u>	12 <u>X3</u>	3 <u>X3</u>
-----------------	----------------	----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------	----------------

8 <u>X4</u>	7 <u>X6</u>	9 <u>X4</u>	12 <u>X9</u>	12 <u>X2</u>	4 <u>X7</u>	7 <u>X5</u>	9 <u>X3</u>	8 <u>X12</u>	4 <u>X2</u>
----------------	----------------	----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	----------------

2 <u>X2</u>	8 <u>X9</u>	2 <u>X7</u>	6 <u>X8</u>	12 <u>X8</u>	9 <u>X12</u>	7 <u>X4</u>	3 <u>X12</u>	5 <u>X3</u>	3 <u>X2</u>
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1 minute timing goal \_\_\_\_\_ Number of problems correct \_\_\_\_\_

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One Minute Timing on facts in Set 12 D

5 <u>X2</u>	9 <u>X12</u>	6 <u>X5</u>	0 <u>X12</u>	8 <u>X6</u>	12 <u>X9</u>	5 <u>X6</u>	6 <u>X7</u>	1 <u>X12</u>	8 <u>X12</u>
----------------	-----------------	----------------	-----------------	----------------	-----------------	----------------	----------------	-----------------	-----------------

12 <u>X6</u>	5 <u>X7</u>	3 <u>X5</u>	12 <u>X8</u>	7 <u>X12</u>	4 <u>X8</u>	12 <u>X5</u>	4 <u>X12</u>	12 <u>X3</u>	3 <u>X3</u>
-----------------	----------------	----------------	-----------------	-----------------	----------------	-----------------	-----------------	-----------------	----------------

8 <u>X4</u>	7 <u>X6</u>	9 <u>X4</u>	12 <u>X9</u>	12 <u>X2</u>	4 <u>X7</u>	7 <u>X5</u>	9 <u>X3</u>	8 <u>X12</u>	4 <u>X2</u>
----------------	----------------	----------------	-----------------	-----------------	----------------	----------------	----------------	-----------------	----------------

2 <u>X2</u>	8 <u>X9</u>	2 <u>X7</u>	6 <u>X8</u>	12 <u>X8</u>	9 <u>X12</u>	7 <u>X4</u>	3 <u>X12</u>	5 <u>X3</u>	3 <u>X2</u>
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1 minute timing goal \_\_\_\_\_ Number of problems correct \_\_\_\_\_

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**Set 12E** [ 10 x 12, 12 x 10, 12 x 12 ] Practice on facts in Set 12 E

X 12    X 8    X 7    X 12    X 4    X 6    X 9    X 7    X 12    X 6    X 12

12      7      12      12      10      12      8      7      9      12  
X8    X5    X10    X4    X12    X9    X12    X12    X12    X12

X 12   X 9   X 8   X 12   X 7   X 12   X 6   X 10   X 12   X 12

12    12    7    12    8    12    9    10    12    6  
X8    X10    X4    X12    X12    X5    X12    X12    X9    X5

Set 12E [ 10 x 12, 12 x 10, 12 x 12 ] Practice on facts in Set 12 E

12      7      12      12      10      12      8      7      9      12  
X8    X5    X10    X4    X12    X9    X12    X12    X12    X12

10      12      12      5      12      12      12      12      6      10  
X 12    X 9    X 8    X 12    X 7    X 12    X 6    X 10    X 12    X 12

12    12    7    12    8    12    9    10    12    6  
X8    X10    X4    X12    X12    X5    X12    X12    X9    X5

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One Minute Timing on facts in Set 12 E

$$\begin{array}{cccccccccc} 2 & 7 & 10 & 12 & 7 & 4 & 2 & 6 & 12 & 5 \\ \underline{\times 2} & \underline{\times 5} & \underline{\times 12} & \underline{\times 12} & \underline{\times 2} & \underline{\times 8} & \underline{\times 5} & \underline{\times 7} & \underline{\times 8} & \underline{\times 7} \end{array}$$

$$\begin{array}{cccccccccc} 2 & 12 & 8 & 7 & 6 & 5 & 7 & 12 & 8 & 12 \\ \underline{\times 7} & \underline{\times 7} & \underline{\times 5} & \underline{\times 6} & \underline{\times 2} & \underline{\times 8} & \underline{\times 9} & \underline{\times 10} & \underline{\times 7} & \underline{\times 1} \end{array}$$

$$\begin{array}{cccccccccc} 4 & 7 & 10 & 7 & 3 & 12 & 5 & 6 & 6 & 4 \\ \underline{\times 4} & \underline{\times 8} & \underline{\times 12} & \underline{\times 5} & \underline{\times 2} & \underline{\times 9} & \underline{\times 7} & \underline{\times 12} & \underline{\times 7} & \underline{\times 12} \end{array}$$

$$\begin{array}{cccccccccc} 12 & 12 & 12 & 8 & 7 & 6 & 12 & 12 & 5 & 3 \\ \underline{\times 2} & \underline{\times 10} & \underline{\times 0} & \underline{\times 4} & \underline{\times 6} & \underline{\times 6} & \underline{\times 5} & \underline{\times 12} & \underline{\times 9} & \underline{\times 12} \end{array}$$

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_

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One Minute Timing on facts in Set 12 E

$$\begin{array}{cccccccccc} 2 & 7 & 10 & 12 & 7 & 4 & 2 & 6 & 12 & 5 \\ \underline{\times 2} & \underline{\times 5} & \underline{\times 12} & \underline{\times 12} & \underline{\times 2} & \underline{\times 8} & \underline{\times 5} & \underline{\times 7} & \underline{\times 8} & \underline{\times 7} \end{array}$$

$$\begin{array}{cccccccccc} 2 & 12 & 8 & 7 & 6 & 5 & 7 & 12 & 8 & 12 \\ \underline{\times 7} & \underline{\times 7} & \underline{\times 5} & \underline{\times 6} & \underline{\times 2} & \underline{\times 8} & \underline{\times 9} & \underline{\times 10} & \underline{\times 7} & \underline{\times 1} \end{array}$$

$$\begin{array}{cccccccccc} 4 & 7 & 10 & 7 & 3 & 12 & 5 & 6 & 6 & 4 \\ \underline{\times 4} & \underline{\times 8} & \underline{\times 12} & \underline{\times 5} & \underline{\times 2} & \underline{\times 9} & \underline{\times 7} & \underline{\times 12} & \underline{\times 7} & \underline{\times 12} \end{array}$$

$$\begin{array}{cccccccccc} 12 & 12 & 12 & 8 & 7 & 6 & 12 & 12 & 5 & 3 \\ \underline{\times 2} & \underline{\times 10} & \underline{\times 0} & \underline{\times 4} & \underline{\times 6} & \underline{\times 6} & \underline{\times 5} & \underline{\times 12} & \underline{\times 9} & \underline{\times 12} \end{array}$$

1 minute timing goal \_\_\_\_\_

Number of problems correct \_\_\_\_\_