Unlike Groups:

\[3 + 5 + 4 = 12\]

Like Groups:

\[5 + 5 + 5 = 15\]

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<th>Number of Groups</th>
<th>Number in Each Group</th>
<th>Total (in all)</th>
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<td>a. ____________</td>
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<td>b. ____________</td>
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<td>c. ____________</td>
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<td>0</td>
<td>e. ____________</td>
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<td>f. ____________</td>
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<tr>
<td>5</td>
<td>1</td>
<td>g. ____________</td>
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<tr>
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<td>8</td>
<td>h. ____________</td>
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Mat 2 - Multiplication Mat

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</tr>
<tr>
<td>Number of Rows</td>
<td>Number in Each Row</td>
<td>Total</td>
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<td>_____ (_____ X _____ = _____)</td>
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<td>_____ (_____ X _____ = _____)</td>
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<td>5</td>
<td>_____ (_____ X _____ = _____)</td>
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<td>4</td>
<td>_____ (_____ X _____ = _____)</td>
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<tr>
<td>Number of Rows</td>
<td>Number in Each Row</td>
<td>Total (in all)</td>
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<tr>
<td>2.</td>
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</table>
Mat 5 – Star Array
Mat 7 - Multiplication Recording Sheet

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =

___  ×  ___  =
Mat 8 - Division Mat

Total (in all)
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$$\text{1. } \_ \_ \_ \div \_ \_ = \_ \_$$

$$\text{2. } \_ \_ \_ \div \_ \_ = \_ \_$$

$$\text{1. } \_ \_ \_ \times \_ \_ = \_ \_$$

$$\text{2. } \_ \_ \_ \times \_ \_ = \_ \_$$
<table>
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<tr>
<th>Total (in all)</th>
<th>Number of Rows</th>
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<th>Calculation</th>
<th>Result</th>
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<td>_____</td>
<td>(18 ÷ _____)</td>
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<tr>
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<td>_____</td>
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<td>(15 ÷ _____)</td>
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Mat 12 - Two-digit Multiplication Mat
<table>
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<th>Tens</th>
<th>Ones</th>
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<tr>
<td>Ten Thousands</td>
<td>Thousands</td>
<td>Hundreds</td>
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<td>By ones</td>
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<tr>
<td>By tens</td>
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</tbody>
</table>
by ones  by tens  by both  
16  16  16  16  
\[ \times 14 \quad \times 4 \quad \times 10 \quad \times 14 \]

by ones  by tens
+ _______  + _______

by ones  by tens  by both  
24  24  24  24  
\[ \times 32 \quad \times 2 \quad \times 30 \quad \times 32 \]

by ones  by tens
+ _______  + _______
by ones  by tens  by both

X___  X___  X___  X___  
______  by ones

+ ______  by tens
123 \times 3

321 \times 2

91 \times 6

32 \times 4

502 \times 3

42 \times 3
18 ÷ 3 =

\[ \underline{3)18} \]

16 ÷ 2 =

\[ \underline{2)16} \]
<table>
<thead>
<tr>
<th>Six divided by three</th>
<th>$3 \overline{)6}$</th>
<th>$6 \div 3 = \frac{6}{3}$</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>a. How many threes in 15?</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. 7 goes into 56</td>
</tr>
<tr>
<td>c. 320 divided by 15</td>
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<tr>
<td>d. 21 divided into 7 equal groups</td>
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<tr>
<td>Six divided by three</td>
</tr>
</tbody>
</table>

| a. How many _____ in _____? |

| b. _____ goes into _____ |

| c. _____ divided by _____ |

| d. _____ divided into _____ equal groups |
1 x 7 = _____
7 x 1 = _____

1 x 9 = _____
9 x 1 = _____

1 x ___ = ___
___ x 1 = ___

0
x 4

0
x ___

4
x 0

x 0
Mat 23 – Fact Families (x/÷)

\[
\begin{align*}
\text{2} \times \text{8} &= 16 & 16 \div \text{?} &= \text{?} \\
\text{3} \times \text{5} &= 15 & 15 \div \text{?} &= \text{?}
\end{align*}
\]
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Try:

1. Use turn-around facts.
   
   \[ 4 \times 6 = \_\_\_\_ \]

2. Add.
   
   4 sixes is \( 6 + 6 + 6 + 6 \)

3. Use what you know.
   
   2 sixes + 2 sixes (\( 12 + 12 \))
2 \times 6 = 12

4 \times 6 = 24
24 ÷ 8 = ?

Try:

1. Use multiplication.

8 x _____ = 24

2. Subtract.

Start with 24. Take out groups of 8. Count the groups. 24 – 8 – 8 – 8

3. Use what you know.

2 eights is 16. One more eight makes 24. That’s 3 eights.
Mat 30 - Products of 9 (with answers)

9 × 0 = 0
9 × 1 = 9
9 × 2 = 18
9 × 3 = 27
9 × 4 = 36
9 × 5 = 45
9 × 6 = 54
9 × 7 = 63
9 × 8 = 72
9 × 9 = 81
9 × 10 = 90
Mat 31 - Products of 9 (without answers)

9 x 0 = ___

9 x 1 = ___

9 x 2 = ___

9 x 3 = ___

9 x 4 = ___

9 x 5 = ___

9 x 6 = ___

9 x 7 = ___

9 x 8 = ___

9 x 9 = ___

9 x 10 = ___
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