

Multiplication and Division

1. Match an equation to each diagram. Solve.

<p><u>Equations:</u> $6 \times y = 96$ $y \div 6 = 96$</p>	<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td> </tr> </table> $\overline{\hspace{1.5cm} 96 \hspace{1.5cm}}$ </p> <p>a.</p>	y	y	y	y	y	y	<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">96</td><td style="padding: 2px 5px;">96</td><td style="padding: 2px 5px;">96</td><td style="padding: 2px 5px;">96</td><td style="padding: 2px 5px;">96</td><td style="padding: 2px 5px;">96</td> </tr> </table> $\overline{\hspace{1.5cm} y \hspace{1.5cm}}$ </p> <p>b.</p>	96	96	96	96	96	96		
y	y	y	y	y	y											
96	96	96	96	96	96											
<p><u>Equations:</u> $6 \times y + 12 = 78$ $6 \times 12 + y = 78$</p>	<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">y</td><td style="padding: 2px 5px;">12</td> </tr> </table> $\overline{\hspace{1.5cm} 78 \hspace{1.5cm}}$ </p> <p>c.</p>	y	y	y	y	y	y	12	<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">12</td><td style="padding: 2px 5px;">y</td> </tr> </table> $\overline{\hspace{1.5cm} 78 \hspace{1.5cm}}$ </p> <p>d.</p>	12	12	12	12	12	12	y
y	y	y	y	y	y	12										
12	12	12	12	12	12	y										

2. For each multiplication sentence, write two division sentences. How can you solve for N?

a. $30 \times 15 = 450$	b. $2 \times N = 520$	c. $N \times 5 = 365$

3. Write a multiplication sentence using the same numbers. How can you solve for N?

a. $210 \div 30 = 7$	b. $N \div 12 = 80$	c. $N \div 28 = 73$

4. Write another division sentence using the same numbers. How can you solve for N?

a. $56 \div 7 = 8$	b. $450 \div N = 50$	c. $762 \div N = 6$

5. Solve. Compare the problems - it helps you find a way to solve the ones on the bottom!

- | | | |
|-----------------------------|--------------------------|---------------------------|
| a. $5 \times N = 20$ | b. $M \div 3 = 5$ | c. $45 \div M = 5$ |
| $4 \times N = 880$ | $M \div 20 = 60$ | $280 \div M = 7$ |
| $8 \times N = 536$ | $M \div 15 = 29$ | $732 \div M = 3$ |

6. Solve the problems.

<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">142</td> </tr> </table> $\overline{\hspace{1.5cm} 298 \hspace{1.5cm}}$ </p> <p>a.</p>	x	x	x	x	142	<p style="text-align: center;"> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">x</td><td style="padding: 2px 5px;">120</td> </tr> </table> $\overline{\hspace{1.5cm} 230 \hspace{1.5cm}}$ </p> <p>b.</p>	x	x	120
x	x	x	x	142					
x	x	120							