Fact Families

Solve each problem.

1. If a fact family has only 2 multiplication and division sentences, what do you know about the product and dividend?

2. Helen says that she remembers what fact families are by thinking about a family with three people in it. How do you think this helps her remember?

3. One dividend in my fact family is 18. One of my divisors is twice one of my quotients. What three numbers are in my fact family? How do you know?

4. Samuel wrote the fact family below. What did he do wrong?

<table>
<thead>
<tr>
<th>Samuel</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 2  = 10</td>
</tr>
<tr>
<td>2 x 5  = 10</td>
</tr>
<tr>
<td>2 x 10 = 20</td>
</tr>
<tr>
<td>5 x 10 = 50</td>
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</tbody>
</table>

5. How many fact families with a dividend under 100 contain only odd numbers? You can use a multiplication table to help you.

6. The fact families $2 \times 3 = 6$ and $2 \times 10 = 20$ both contain exactly three different digits. How many other fact families with dividends under 100 contain exactly three different digits? Name one multiplication fact in each of these families.