

2. What did the kids do wrong? In each case, a) explain the mistake made, and b) solve the problem the right way.

Jenny: I got that

$$\frac{1}{8} \div \frac{2}{5} = \frac{2}{40} = \frac{1}{20}$$

Mark: My calculation gives

$$\frac{3}{5} \div 1 \frac{1}{4} = \frac{3}{5} \times \frac{4}{1} = \frac{12}{5} = 2 \frac{2}{5}$$

Fred: This problem goes like this:

$$1 \frac{1}{10} \times 2 \frac{1}{4} = 2 \frac{1}{40}$$

Susan: It is this way I think.

$$3 \frac{2}{7} \div 2 \frac{2}{3} = \frac{23}{7} \times \frac{8}{3} = \frac{184}{21} = 8 \frac{16}{21}$$

Ted: What did I do wrong?

$$1 \frac{1}{10} \times 2 \frac{1}{4} = \frac{11}{10} \times \frac{4}{9} = \frac{44}{90} = \frac{22}{45}$$

May: I know how to divide fractions!

$$10 \frac{1}{8} \div 2 \frac{1}{4} = 10 \div 2 + \frac{1}{8} \div \frac{1}{4} = 5 \frac{1}{2}$$

3. Can you figure out the missing divisor? Remember to think "How many times does this go into this?" Also, think how you solve the first easy problems and apply the same ideas to the harder ones.

<b>a.</b> $20 \div \quad = 2$	<b>b.</b> $110 \div \quad = 2$	<b>c.</b> $144 \div \quad = 9$	<b>d.</b> $216 \div \quad = 3$
<b>e.</b> $2 \frac{2}{8} \div \quad = 2$	<b>f.</b> $1 \frac{2}{6} \div \quad = 2$	<b>g.</b> $1 \frac{1}{4} \div \quad = \frac{1}{4}$	<b>h.</b> $1 \frac{3}{4} \div \quad = \frac{1}{4}$
<b>i.</b> $6 \frac{3}{7} \div \quad = 3$	<b>j.</b> $8 \frac{4}{10} \div \quad = 4$	<b>k.</b> $12 \frac{6}{7} \div \quad = 3$	<b>l.</b> $5 \frac{1}{2} \div \quad = \frac{1}{2}$

4. Can you divide by half? Remember to think how many times half goes into the dividend.

**a.**  $2 \div \frac{1}{2} =$

**b.**  $2 \frac{1}{2} \div \frac{1}{2} =$

**c.**  $4 \frac{1}{2} \div \frac{1}{2} =$

**d.**  $3 \div \frac{1}{2} =$

**e.**  $11 \div \frac{1}{2} =$

**f.**  $5 \div \frac{1}{2} =$

**g.**  $20 \frac{1}{2} \div \frac{1}{2} =$

**h.**  $3 \frac{1}{2} \div \frac{1}{2} =$

**i.**  $15 \div \frac{1}{2} =$

**j.**  $22 \div \frac{1}{2} =$

**k.**  $105 \div \frac{1}{2} =$

**l.**  $14 \frac{1}{2} \div \frac{1}{2} =$