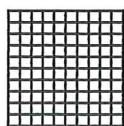


NS7-53 Dividing Decimals by Whole Numbers

You can divide a decimal by a whole number by making a base ten model. Here is what the blocks represent:



= 1 one or unit



= 1 tenth

□ = 1 hundredth

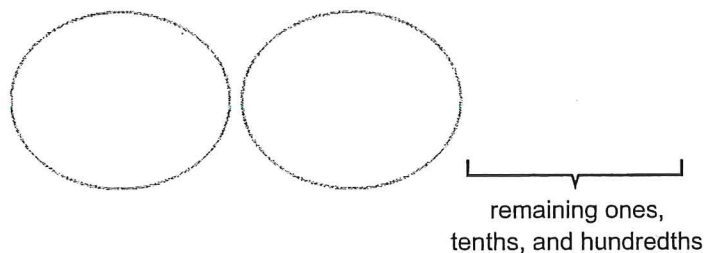
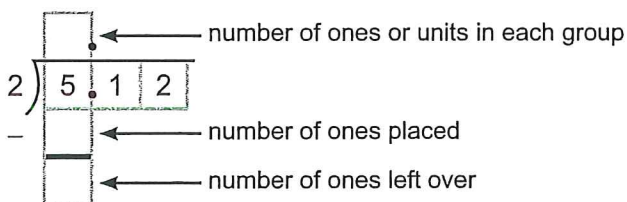
Keep track of your work using long division.

- Find $5.12 \div 2$ by making a base ten model and by long division.

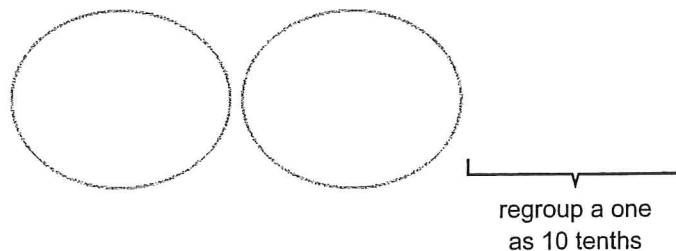
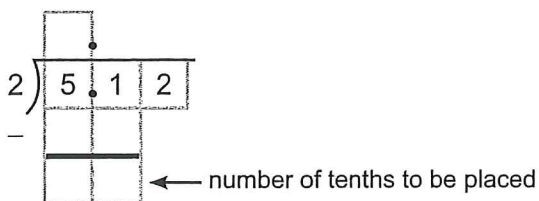
Step 1: Draw a base ten model for 5.12.

Draw your model here.

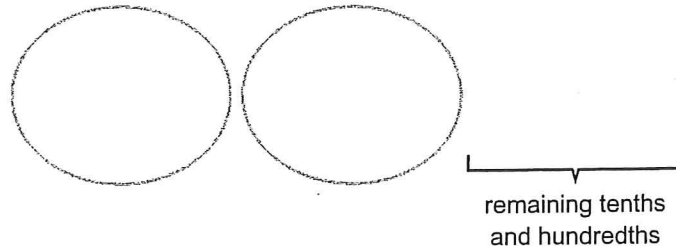
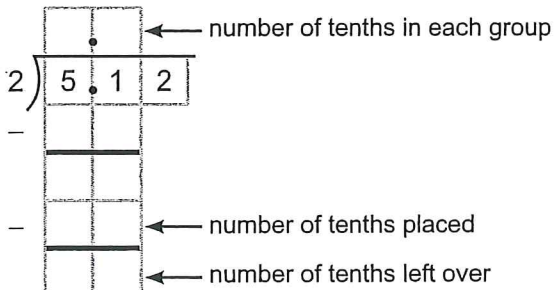
Step 2: Divide the largest (unit) blocks into 2 equal groups.



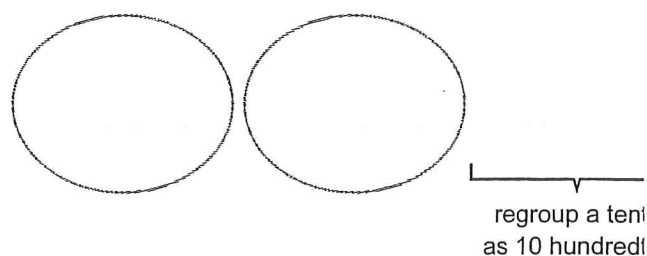
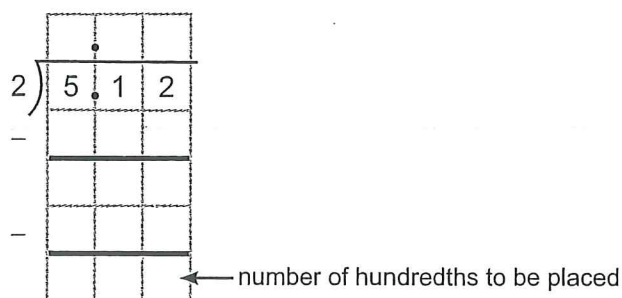
Step 3: Exchange the leftover unit blocks for 10 tenths.



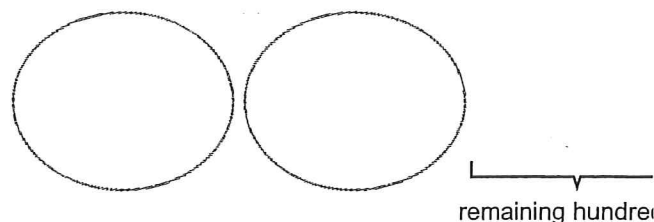
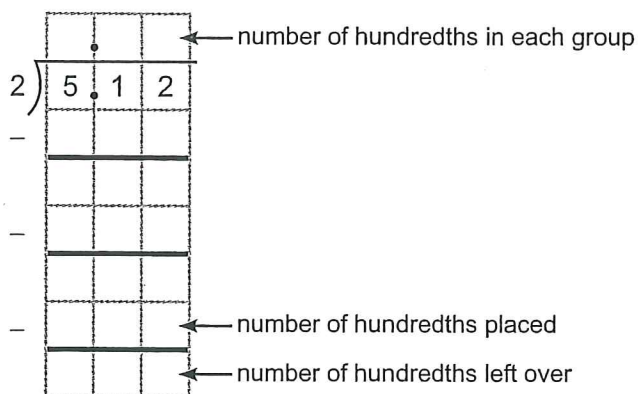
Step 4: Divide the tenths blocks into 2 equal groups.



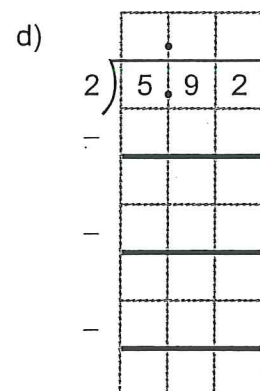
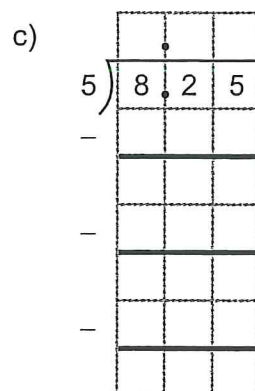
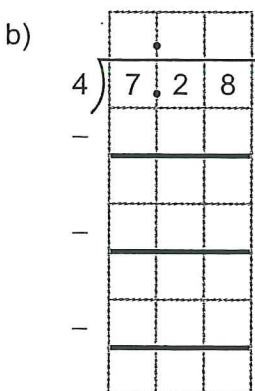
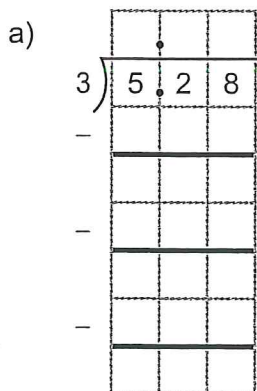
Step 5: Exchange the leftover tenth block for 10 hundredths.



Steps 6 and 7: Divide the hundredths into 2 equal groups.



2. Divide.



3. Divide.

a) $8 \overline{)2.56}$

b) $7 \overline{)5.6}$

c) $8 \overline{)4.48}$

d) $9 \overline{)6.21}$

e) $5 \overline{)32.45}$

4. Five oranges cost \$3.65. How much does each orange cost?

5. An equilateral triangle has a perimeter of 3.12 m. How long is each side?

6. Philip cycled 58.4 km in 4 hours. How many kilometres did he cycle in an hour?

7. Ahmed earned \$97.36 in 8 hours. How much did he earn each hour?

8. Which is a better deal, 8 pens for \$6.16 or 7 pens for \$5.46?