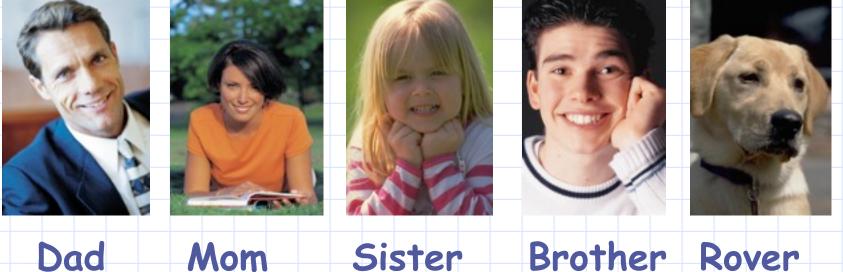
Long Division

Let this family help you remember the steps in long division.



Sister Mom

1

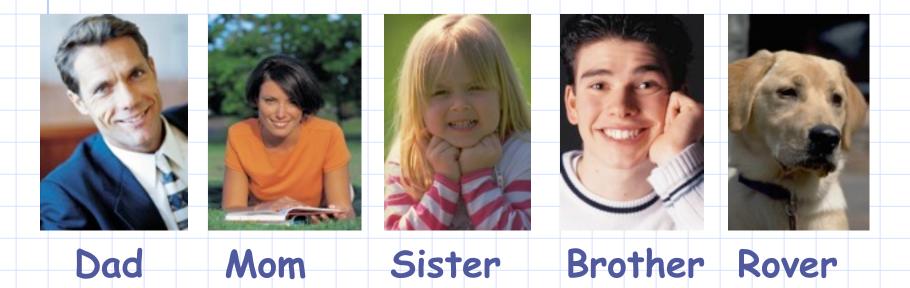
*All images are used with permission from Microsoft Word and Microsoft Online Design Gallery.

Long Division

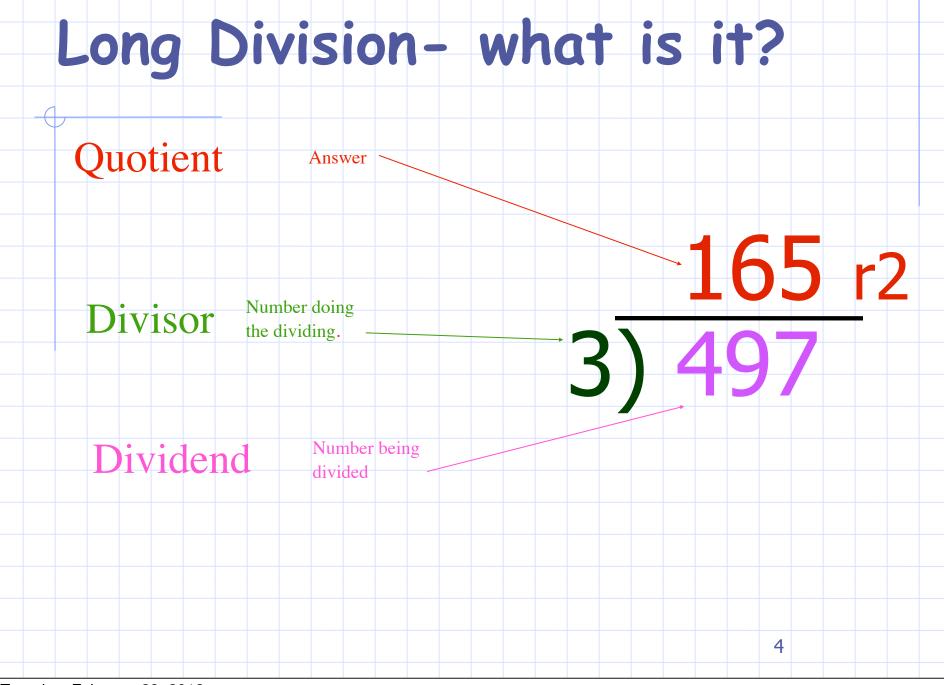


2

Each family member represents a step in solving long division problems.







Step One - Divide

Divide 3 into the first number in the dividend.

◆ 3 will go into 4 one time.

Write a 1 above the 4 because that's the current dividend.

Dad

497

Step Two - Multiply

497

6

Multiply the divisor times the first number in the quotient.



Write the answer below the number you just divided into.

Mom

Step Three - Subtract

497

7



Be sure to line up your numbers carefully.



Step Four - Bring Down

497

8

Draw an arrow and bring the second digit in the dividend down.



Step Five - Repeat or Remainder

497

9

 Repeat the steps in the same manner as before, as shown in the next set of slides.



Repeat Step One - Divide

16

- Divide 3 into the new number.
- 3 will go into 19 six times.
- Write a 6 above the 9 because that's the current dividend.



Repeat Step Two - Multiply

Multiply the divisor into the new number in your quotient.



Write 18 below the number you just divided

into.



16 18

11



Repeat Step Four -Bring Down

 If there are more digits in the dividend, repeat the procedure.

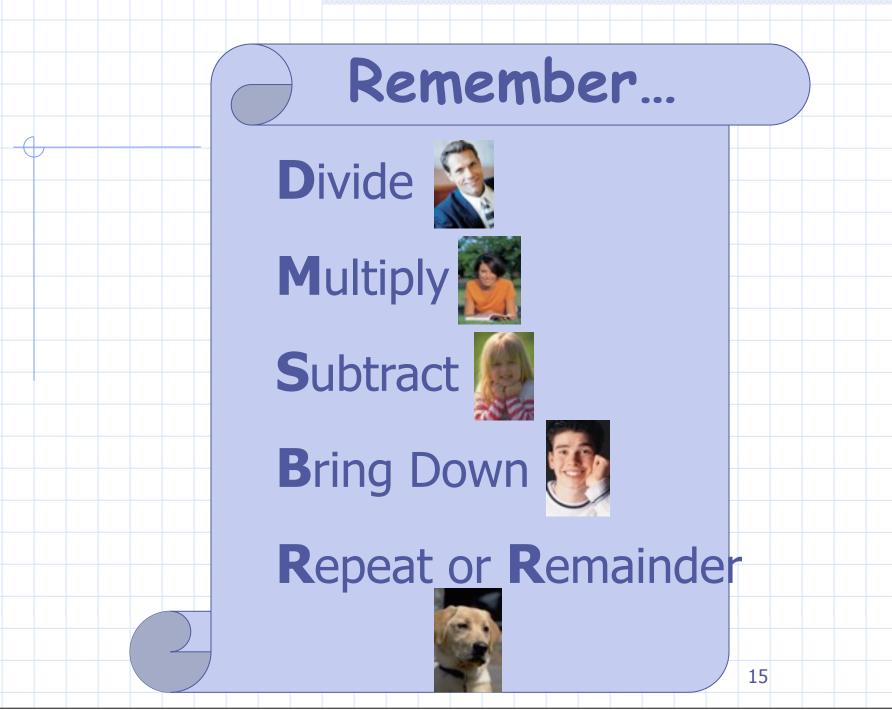
Bring the third digit in the dividend down.

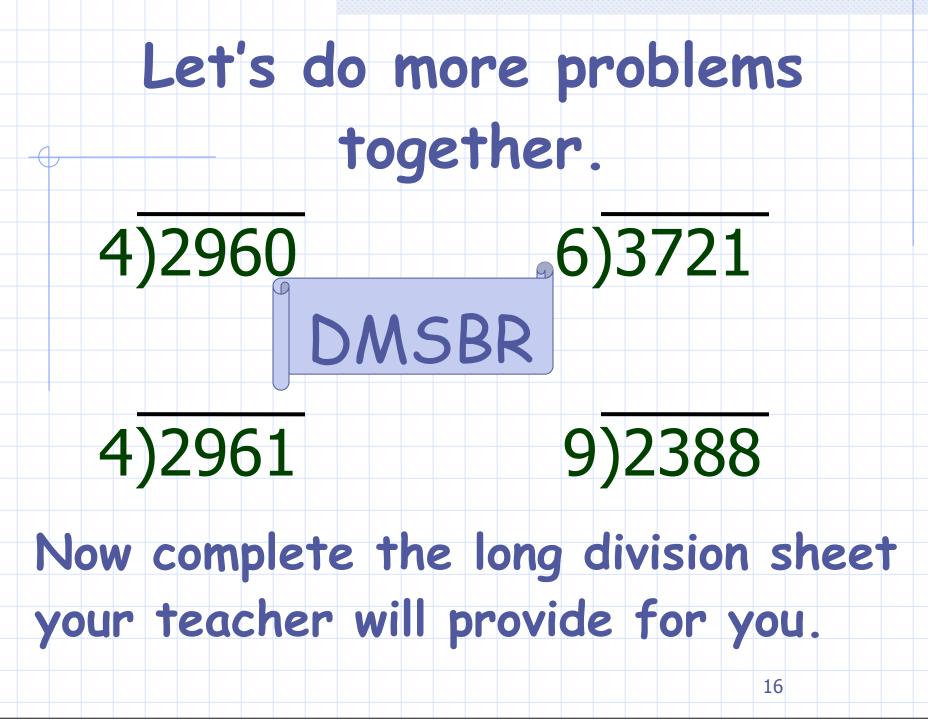
16 3) 497 -<u>3</u> -<u>3</u> -<u>19</u> -<u>18</u>

13

Brother

Repeat Step Five -Repeat or Remainder If there are more digits in 165 r2 the dividend, repeat the procedure. 3) If there are no more digits in the dividend, write the final subtraction answer as a remainder. If there is no remainder, you're finished! Pat yourself on the back for a job well done. Rover







You have just learned a mnemonic device for helping you to remember the steps in long division.

You can use mnemonic devices anytime you need to learn material in any subject.

Let's look at some more examples of mnemonic devices...



Do the clocks go forward or backward?

http://www.happychild.org.uk/acc/tpr/mne/0898clks.htm

Numerical Prefixes

http://www.happychild.org.uk/acc/tpr/mne/0399pref.htm

Embarrass or Embarass?

http://www.happychild.org.uk/acc/tpr/mne/0999emba.htm

Stalactites and Stalagmites

http://www.happychild.org.uk/acc/tpr/mne/0105stal.htm

Planet Sizes

http://www.happychild.org.uk/acc/tpr/mne/0102plan.htm

18

It's Your Turn!

◆In groups of three, devise a mnemonic device the will help you and your classmates remember a math concept. Write a poem, song, story, or acronym such as "DMSBR" to help you.

Some of the topics you might choose from include:

Order of operations
Solving word problems
Components of an angle
Finding perimeter and area
Components of an angle area
Components of an angle area
Components of an angle area