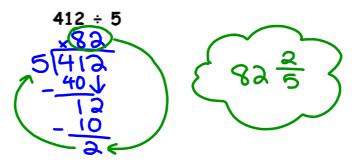
AIM: 1-10 How do we divide whole numbers and represent the remainder as a decimal?

Name	Date
Ms. Piccolo	Math 6 - Period

Warm-up: Divide and write the quotient as a fraction.





Let's Investigate: Dividing Whole Numbers with Decimal Remainders

STEPS FOR DIVIDING WITH DECIMAL PLACES

- 1) Divide, multiply, subtract, bring down, repeat. (DMSBR)
- 2) When you have reached the end of the whole numbers, add a decimal point and a zero to the dividend.
- 3) Bring the decimal point up to the quotient.
- 4) Follow the steps for division.
- 5) Keep adding a zero to the dividend until you get a terminating or repeating decimal

Divide and write your answer as a	Now, write the quotient as a
DECIMAL	FRACTION, in simplest form!
764 ÷ 40 × 19.1 40	19 4 = 4

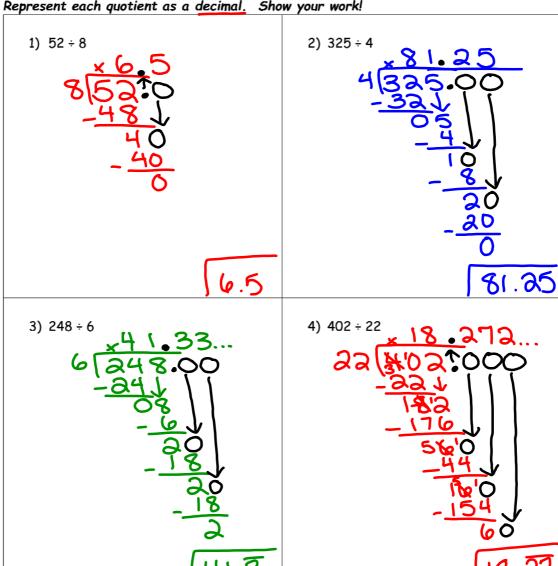
New Vocabulary:

- (Example: 0.25, 3.567, 24.0098)
- Repeating Decimal A decimal where the digits repeat with no end.

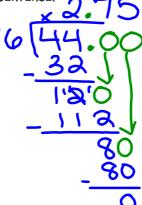
(Example: 0.333..., 5.6565...,4.7)

Now You Try! Partner Practice

Represent each quotient as a decimal. Show your work!



- 5) Liam scooped out 44 pieces of hard candy to buy at the store. He wants to divide the candy evenly among his sixteen friends.
- a) How many pieces will each of his sixteen friends get? Show your work and write your answer in a complete sentence.





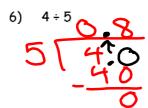
Each of his friends will get 2 pieces.

a) What number is the remainder and what does it represent in the story?

The remainder is 12, which represents the number of candy left over. (12 out of 16 pieces)

- c) Write the quotient as a fraction, in simplest form:

Additional Problems: Show your work!



- 7) 12 ÷ 5
- 8) 9 ÷ 12

- 9) 436 ÷ 5
- 10) 435 ÷ 25
- 11) 4279 ÷ 44

- 12) 273 ÷ 84 13) 60 ÷ 48 14) 286 ÷ 55

<u>ANSWERS</u>: 6) 0.8 7) 2.4 8) 0.75 9) 87.2 10) 17.4 11) 97.25 12) 3.25 13) 1.25 14) 5.2