Name: _____ NBT.6 Divide Whole Numbers Date: _____

Resource Page

Vocabulary:

25 ÷ 5 = 25 divided by 5 =

Dividend ÷ Divisor = Quotient

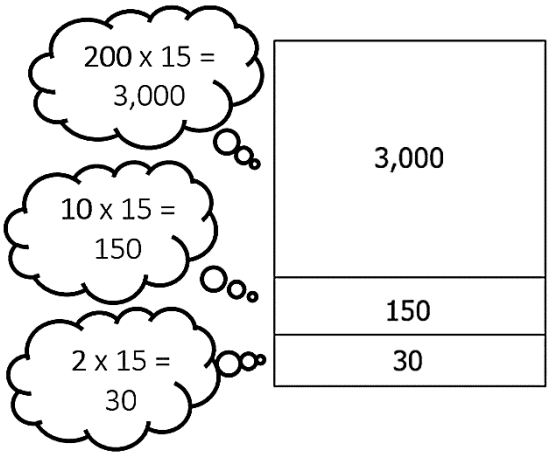
Quotient

Divisor) Dividend

$\frac{25}{5}$ $\frac{\text{Dividend}}{\text{Divisor}}$

3,180 ÷ 15 = 212

Area Model:



Partial Quotient Model:

15 ⟌ 3,180

− 3,000 (15 x 200)

180

− 150 (15 x 10)

30

− 30 (15 x 2)

0

Final Step:

200

10

\+ 2

212

Partial Quotients

Quotient

Division Strategy: Partial Quotients

346 ÷ 12 = 28 r10

28 R10

12 ⟌ 346

− 120 (10)

226

− 120 (10)

106

− 96 (+ 8)

10

28

12 x 10 = 120

12 x 8 = 96

962 ÷ 6 = 160 r2

6 ⟌ 962

600 x100

362

120 x 20

242

240 x 40

2

160 R 2

6 ⟌ 962

600 x100

362

180 x 30

182

180 x 30

2

160 R 2

Division Strategy: Multiplying Up

362 ÷ 15
15 x 10 = 150
15 x 10 = 150
15 x 2 = 30
15 x 2 = 30

15 x 24 = 360
+ 2
362

362 ÷ 15 = 24 R2

or

362 ÷ 15
15 x 20 = 300
15 x 4 = 60

15 x 24 = 360
+ 2
362

362 ÷ 15 = 24 R2

445 ÷ 15 = **30**

15 x **10** = 150

15 x **10** = 150

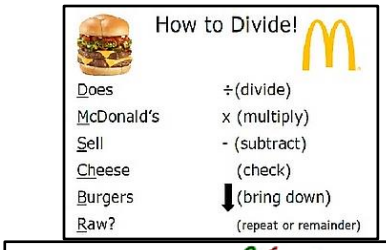
15 x **5** = 75

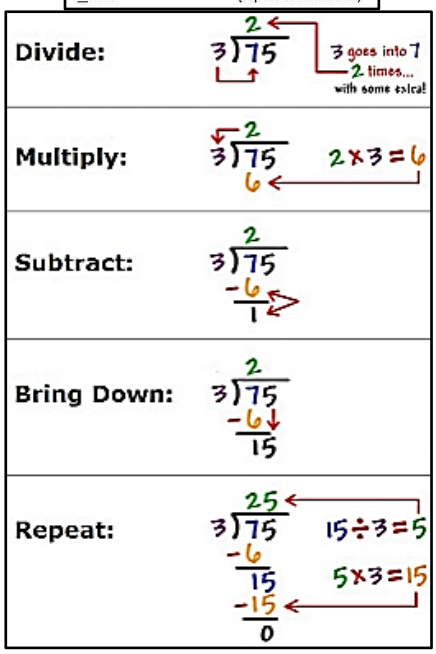
15 x **3** = 45

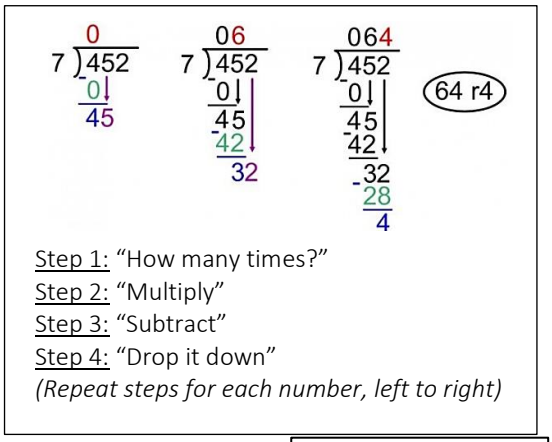
15 x **2** = 30

445
- 150
295
- 150
145
- 75
70
- 45
30
- 30
0

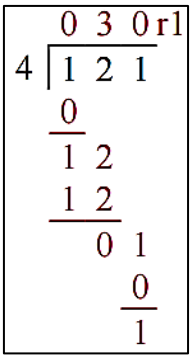
Division Strategy: Standard Algorithm - Long Division

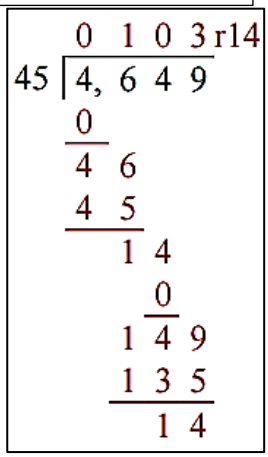






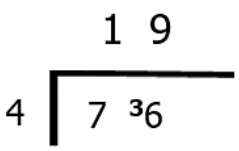
Step 1: "How many times?"
Step 2: "Multiply"
Step 3: "Subtract"
Step 4: "Drop it down"
(Repeat steps for each number, left to right)





Division Strategy: Short Division

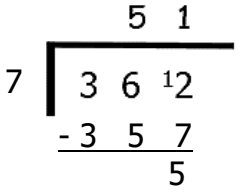
76 ÷ 4 = 19



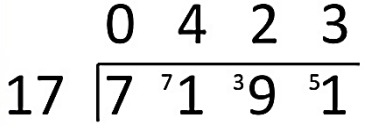
Step 1: How many times does 4 go into 7?
It goes into 7 once and has a remainder of 3.

Step 2: How many times does 4 go into 36?
It goes into 36 nine times and has no remainder.

362 ÷ 7 = 51 r5



7193 ÷ 17 = 423



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