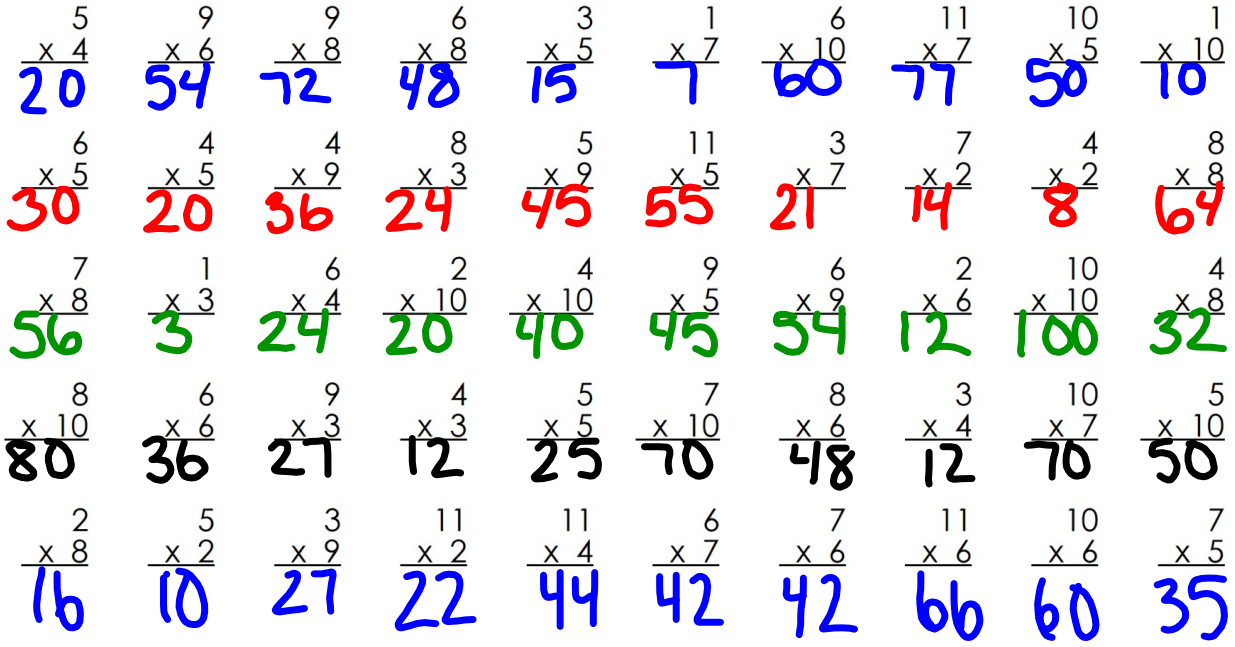
5 x 4 = 20
9 x 6 = 54
9 x 8 = 72
6 x 8 = 48
3 x 5 = 15
1 x 7 = 7
6 x 10 = 60
11 x 7 = 77
10 x 5 = 50
1 x 10 = 10
6 x 5 = 30
4 x 5 = 20
4 x 9 = 36
8 x 3 = 24
5 x 9 = 45
11 x 5 = 55
3 x 7 = 21
7 x 2 = 14
4 x 2 = 8
8 x 8 = 64
7 x 8 = 56
1 x 3 = 3
6 x 4 = 24
2 x 10 = 20
4 x 10 = 40
9 x 5 = 45
6 x 9 = 54
2 x 6 = 12
10 x 10 = 100
4 x 8 = 32
8 x 10 = 80
6 x 6 = 36
9 x 3 = 27
4 x 3 = 12
5 x 5 = 25
7 x 10 = 70
8 x 6 = 48
3 x 4 = 12
10 x 7 = 70
5 x 10 = 50
2 x 8 = 16
5 x 2 = 10
3 x 9 = 27
11 x 2 = 22
11 x 4 = 44
6 x 7 = 42
7 x 6 = 42
11 x 6 = 66
10 x 6 = 60
7 x 5 = 35

GUESS WHAT WE GET TO USE TODAY...

CALCULATORS :-)

What kind of number is this?

$\frac{5}{10}$ Fraction

Do we know what operation a fraction is?

Division

SO, use your calculator to find the decimals...

$\frac{1}{11} = 0.09090909\ldots$

$\frac{2}{11} = 0.18181818\ldots$

$\frac{3}{11} = 0.27272727\ldots$

Now, without your calculator, can you predict what these decimals would be?

$\frac{4}{11}$ = 0.363636 . . . .

$\frac{5}{11}$ = 0.454545 . . . . .

Use your calculator to see if we are right

Do we see a pattern with those decimals?

Adding 0.9 each time

Fractions

Repeating Decimal

A decimal that contains a digit, or group of digits, that repeat endlessly. (I.e., $\frac{2}{3}$ = 0.66666...)

Terminating Decimal

A decimal that comes to an end and does not go on forever.

(i.e., $\frac{3}{6}$ = 0.5)

Use your calculator to convert this fraction to a decimal (remember what operation we need to use)

a) $\frac{1}{4}$ = 0.25 b) $\frac{2}{4}$ = 0.50

WHAT PATTERN DO WE SEE??

Increases by 0.25

Thinking of the pattern, predict the decimal:

(a) $\frac{3}{4}$ = 0.75 ✓

Use a calculator when you need to.

1. **a)** Write each fraction as a decimal.

i) $\frac{2}{3}$ ii) $\frac{3}{4}$ iii) $\frac{4}{5}$ iv) $\frac{5}{6}$ v) $\frac{6}{7}$

b) Identify each decimal as terminating or repeating.

2. Write each decimal as a fraction.

a) 0.8 b) 0.25 c) 0.45 d) 0.01 e) 0.125

3. **a)** Write each fraction as a decimal.

i) $\frac{1}{27}$ ii) $\frac{2}{27}$ iii) $\frac{3}{27}$

b) Describe the pattern in your answers to part a.

c) Use your pattern to predict the decimal form of each fraction.

i) $\frac{4}{27}$ ii) $\frac{5}{27}$ iii) $\frac{8}{27}$