Linked Chains

Daria

20 links

$5/20 + 5/20 + 5/20 + 5/20$

$8/20 + 10/20 + 4/20 = 20/20$

$10/20 + 3/20 + 4/20 + 3/20 = 20/20$

$12/20 + 8/20 = 20/20$

$5/20 + 4/20 + 5/20 + 3/20 + 3/20 = 20/20$

$10/20 + 10/20 = 20/20$

$8/20 + 2/20 + 6/20 + 4/20 = 20/20$

24 links

$8/24 + 8/24 + 8/24 = 24/24$

$12/24 + 12/24 = 24/24$

$2/24 + 3/24 + 4/24 + 5/24 + 8/24 + 2/24 = 24/24$

$12/24 + 10/24 + 2/24$

$10/24 + 10/24 + 4/24 = 24/24$

$6/24 + 4/24 + 8/24 + 2/24 + 4/24 = 24/24$

$8/24 + 5/24 + 9/24 + 2/24 = 24/24$

27 links

$9/27 + 9/27 + 9/27 = 27/27$

$9/27 + 2/27 + 8/27 + 8/27 = 27/27$

$12/27 + 12/27 + 3/27 = 27/27$

$9/27 + 9/27 + 3/27 + 6/27 = 27/27$

$9/27 + 8/27 + 10/27 = 27/27$

$2/27 + 2/27 + 2/27 + 2/27 + 2/27 + 10/27 + 5/27 + 2/27 = 27/27$

$8/27 + 8/27 + 8/27 + 4/27 + 5/27 = 27/27$

20	24	27
$2 = 2/20$	$2/24$	$2/27$
$3 = 3/20$	$3/24$	$3/27$
$4 = 4/20$	$4/20$	$4/27$
$5 = 5/20$	$5/24$	$5/27$
$6 = 6/20$	$6/24$	$6/27$
$8 = 8/20$	$8/24$	$8/27$
$9 = 9/20$	$9/24$	$9/27$
$10 = 1/2$ or $10/20$	$10/24$	$10/27$
$12 = 12/20$	$12/24$	$12/27$

$2+8+10=20 = \frac{1}{10} + \frac{8}{20} + \frac{10}{20} =$

$2+8+6+4=20 = \frac{1}{10}$

$\frac{1}{10} +$

$5+5+5+5 = \frac{5}{20} + \frac{5}{20} + \frac{5}{20} + \frac{5}{20} = 20/20$

2=
3=
4= 1/4, 5/20 = 1/5
5=
6=
8=
9=
10= 1/2
12

20	24	27
2 = 1/10 2/20	2/24	
3=	3/24	3/27
4= 4/20 = 1/4	4/24	
5 = 5/20 1/5		
6=	6/24	
8=	8/24	
9=		9/27
10= 1/2		
12 =	1/2	

$10+5+5 = 5/20 + 5/20 + \frac{10}{20} = 20$

Daecia

Linked Chains

I started by trying to figure out how I could make fractions that could equal to 20, 24, 27. With my partner (Charlene) I started to make different combinations. My friend Sasha shared with me a chart which was interesting. I then improvised the chart and tried to make an easy way to create the combinations. One of my strategys was to make one combination (ex: $\frac{8}{20} + \frac{2}{20} + \frac{6}{20} + \frac{4}{20} = \frac{20}{20}$) I could then replace 8 with 4+4, 6 with 3+3, and 4 with 2+2. Then reapeat this with different combinations. I came up with 7 combinations for each number.