

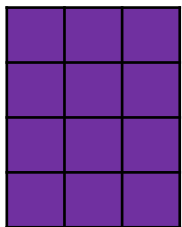
finding factor pairs

12

1×12

2×6

3×4



multiplying using factor pairs

$12 \times 9 =$

$10 \times 9 = 90$

$2 \times 9 = 18$

$90 + 18 = 108$

$12 \times 9 = 108$

using known facts

$4 \times 7 = 28$

$7 \times 4 = 28$

$40 \times 7 = 280$

$400 \times 7 = 2,800$

$4 \times 70 = 280$

$4 \times 700 = 2,800$

$40 \times 70 = 2,800$

$28 \div 7 = 4$

$28 \div 4 = 7$

$280 \div 7 = 40$

$280 \div 4 = 70$

$2,800 \div 7 = 400$

$2,800 \div 4 = 700$

short multiplication

		5	7
x			6
<hr/>			
3	4		2
<hr/>			
	4		

		3	5	7
x				6
<hr/>				
2	1	4		2
<hr/>				
	3	4		

short division

$148 \div 2 = 74$

dividend divisor quotient

	0	7	4	
2	1	4	8	
	1			

Any number multiplied by 0 is 0
 $4 \times 0 = 0$ $7 \times 0 = 0$ $12 \times 0 = 0$
 Any number multiplied or divided by 1 stays the same

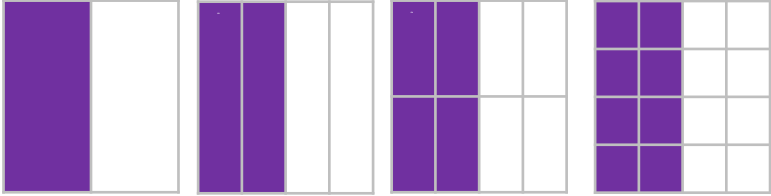
$45 \times 1 = 45$ $45 \div 1 = 45$

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Y4 - Fractions (including Decimals)

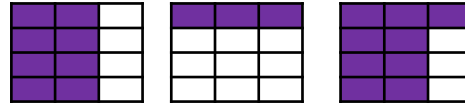
equivalent fractions

$$\frac{1}{2} \quad \frac{2}{4} \quad \frac{4}{8} \quad \frac{8}{16}$$



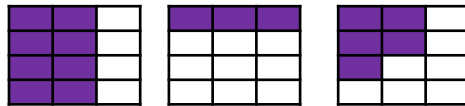
adding fractions with the same denominators

$$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$



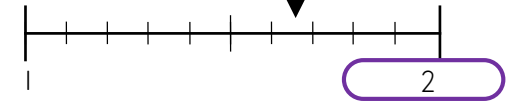
subtracting fractions with the same denominators

$$\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$



Round to the nearest whole number

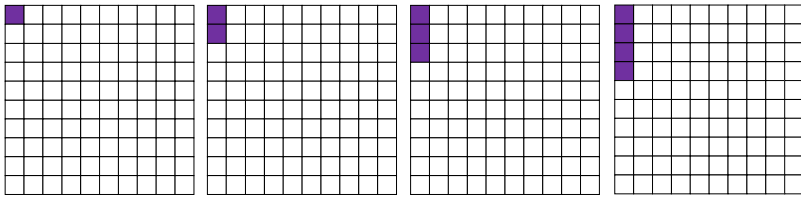
1.673



counting in hundredths

$$\frac{1}{100} \quad \frac{2}{100} \quad \frac{3}{100} \quad \frac{4}{100}$$

0.01 0.02 0.03 0.04



comparing decimal numbers

H	T	O	t	h
		0	2	2
		0	4	2

< > =

less than more than equal to

$$0.2 < 0.42$$

fractions of numbers



$$45 \div 5 = 9$$

$$9 \times 3 = 27$$

$$\frac{3}{5} \text{ of } 45 = 27$$

dividing by 10, 100 and 1000

H	T	O	t	h
	4	2		
		4	2	
		0	4	2

fraction and decimal equivalence

$$\frac{1}{4} = \frac{25}{100} = 0.25$$

$$\frac{1}{2} = \frac{50}{100} = 0.5$$

$$\frac{3}{4} = \frac{75}{100} = 0.75$$