

## I can use $\times$ and $\div$ to find equivalents

1) Find what denominator or numerator  $\times$  or  $\div$  by

2) Do this to the numerator or denominator

$\times$	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

$$1) \frac{3}{4} = \frac{\quad}{20}$$

$$2) \frac{5}{6} = \frac{\quad}{30}$$

$$3) \frac{3}{8} = \frac{\quad}{48}$$

$$4) \frac{2}{7} = \frac{\quad}{28}$$

$$5) \frac{1}{9} = \frac{\quad}{63}$$

$$6) \frac{4}{5} = \frac{\quad}{40}$$

$$7) \frac{6}{10} = \frac{\quad}{50}$$

$$8) \frac{3}{12} = \frac{\quad}{48}$$

$$9) \frac{3}{11} = \frac{\quad}{121}$$

$$10) \frac{12}{36} = \frac{4}{\quad}$$

$$11) \frac{63}{70} = \frac{7}{\quad}$$

$$12) \frac{36}{63} = \frac{4}{\quad}$$

Extension:  
Which of these are equivalents?

$\frac{9}{36}$	$\frac{3}{4}$	$\frac{16}{64}$	$\frac{6}{24}$
	$\frac{150}{200}$	$\frac{12}{16}$	
$\frac{12}{48}$	$\frac{8}{34}$	$\frac{20}{80}$	

**Numerator**

Number of parts you have



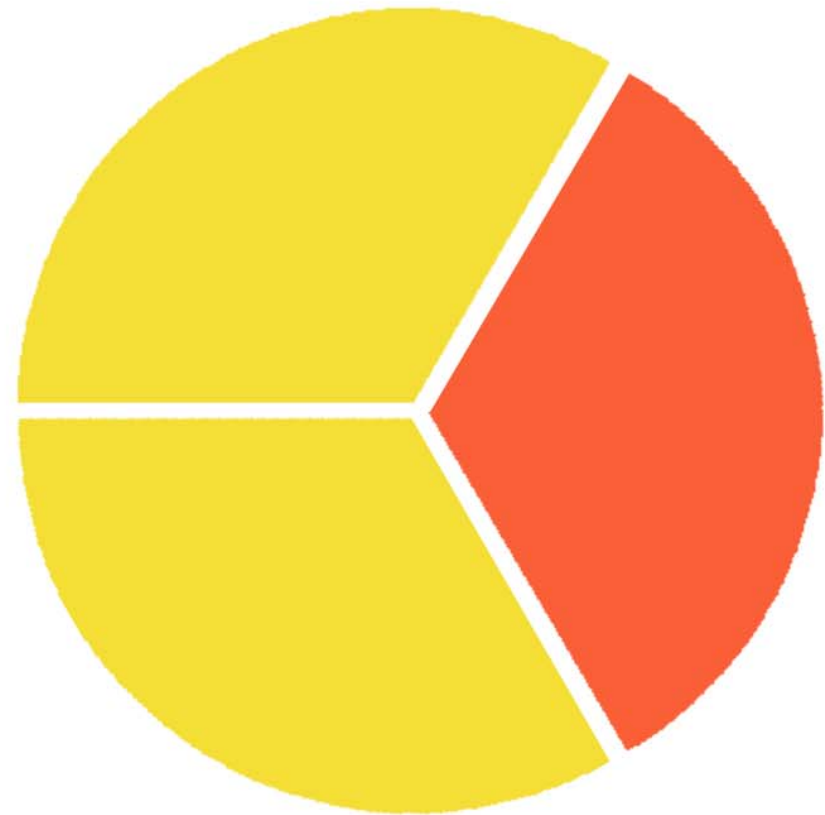
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**Denominator**

Number of parts you need  
to make a whole



# We can multiply or divide to find equivalent fractions

1) Find what denominator or numerator  $\times$  or  $\div$  by

$$\frac{6}{7} = \frac{\quad}{28}$$

2) Do this to the numerator or denominator

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

# We can multiply or divide to find equivalent fractions

1) Find what denominator or numerator  $\times$  or  $\div$  by

$$\frac{5}{8} = \frac{20}{32}$$

2) Do this to the numerator or denominator

$\times$	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

# We can multiply or divide to find equivalent fractions

1) Find what denominator or numerator  $\times$  or  $\div$  by

$$\frac{36}{54} = \frac{\quad}{9}$$

2) Do this to the numerator or denominator

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

# We can multiply or divide to find equivalent fractions

1) Find what denominator or numerator  $\times$  or  $\div$  by

$$\frac{21}{36} = \frac{7}{12}$$

2) Do this to the numerator or denominator

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