Percentages

Write one number as a percentage of another number.

One Number as a Percentage of Another Number

Write the following as percentages

eg   25 out of 40

$$\frac{25}{40} = \frac{250}{400} = \frac{62.5}{100} = 62.5\%$$

a	50 out of 200	n	12 out of 20
b	80 out of 400	o	15 out of 20
c	65 out of 300	p	17 out of 25
d	72 out of 400	q	35 out of 40
e	150 out of 200	r	25 out of 40
f	45 out of 200	s	72 out of 200
g	29 out of 50	t	48 out of 50
h	37 out of 50	u	37 out of 50
i	16 out of 25	v	8 out of 20
j	42 out of 50	w	19 out of 20
k	168 out of 200	x	17 out of 25
l	18 out of 25	y	39.5 out of 50
m	65 out of 200	z	16.5 out of 20

Find the percentage of a number

1 WRITE THE FRACTION OF PERCENTAGE OVER 100

2 CHANGE THE PERCENTAGE INTO A DECIMAL FRACTION

3 MULTIPLY THE DECIMAL BY THE ORIGINAL NUMBER

Find the percentage of a number

Following percentages of a number

eg   42% of 86.

$$\frac{42}{100} \times 86 = 0.42 \times 86 = 36.12$$

a	35% of 80		n	99% of 450
b	45% of 60		o	61% of 240
c	85% of 150		p	93% of 160
d	78% of 250		q	39% of 2000
e	84% of 450		r	89% of 300
f	60% of 240		s	145% of 800
g	83% of 160		t	345% of 650
h	98% of 2000		u	185% of 750
i	67% of 300		v	378% of 350
j	55% of 80		w	284% of 550
k	38% of 60		x	56.7% of 740
l	94% of 150		y	48.3% of 260
m	57% of 250		z	39.8% of 5000

www.achildsguideto.com

Convert Percentages to Decimals

Convert the following percentages to decimals

eg $4\% = 0.04$ $47\% = 0.47$ $49.3\% = 0.493$ $251\% = 2.51$ $375.8\% = 3.758$

a	57%	j	28%	s	16.9%
b	93%	k	8%	t	83.7%
c	86%	l	2%	u	4.9%
d	27%	m	183%	v	8.3%
e	1%	n	612%	w	9.91%
f	7%	o	405%	x	0.7%
g	9%	p	625%	y	0.4%
h	16%	q	550%	z	0.067%
i	3%	r	32.5%		

IMPORTANT INFORMATION TO LEARN:

$$1 \times 100 = 100$$
$$2 \times 50 = 100$$
$$4 \times 25 = 100$$
$$5 \times 20 = 100$$
$$10 \times 10 = 100$$
$$2\frac{1}{2} \times 40 = 100$$

Convert Percentages to Fractions

MAKE THE PERCENTAGE THE NUMERATOR.

SET THE DENOMINATOR AS 100.

CANCEL DOWN THE FRACTION BY DIVIDING THE TOP AND BOTTOM BY THE SAME AMOUNT

Convert Percentages to Fractions

Convert the following percentages into fractions

eg

Both numerator and denominator are divisible by 5

$$55\% = \frac{55}{100} = \frac{11}{20} \qquad 36\% = \frac{36}{100} = \frac{9}{25}$$

Both numerator and denominator are divisible by 4

a	20%	j	32%	s	52%
b	30%	k	44%	t	66%
c	70%	l	72%	u	150%
d	90%	m	84%	v	250%
e	85%	n	64%	w	175%
f	65%	o	56%	x	225%
g	95%	p	76%	y	350%
h	16%	q	82%	z	849%
i	48%	r	94%		

REMEMBER THE WORK WE DID ON MIXED NUMBERS AND IMPROPER FRACTIONS.