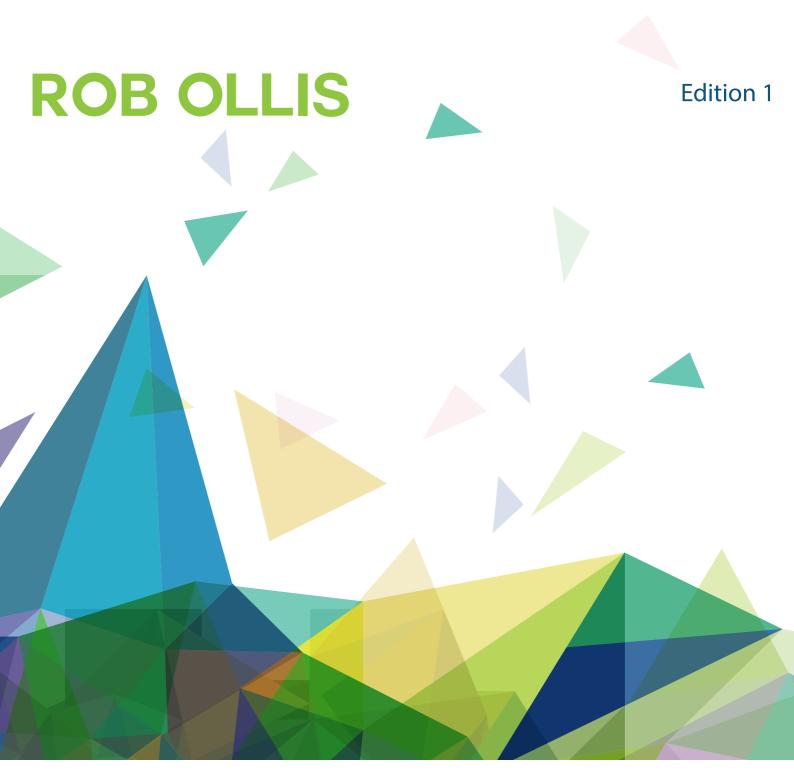
PERCENTAGE







Everyone is talking percentages these days – whether it's interest rates, surveys, CPI or whatever. Knowing and understanding the % symbol is part of survival for the 21st century.

Percent means per hundred.

50 percent means 50 per hundred or $\frac{50}{100}$ written as a fraction.

Here are two more examples:

$$\underline{10 \text{ percent}} = \frac{10}{100}$$
 as a fraction $\underline{76 \text{ percent}} = \frac{76}{100}$ as a fraction

 $\underline{\%}$: We use the symbol % to mean percentage ... ie $3\% = \frac{3}{100}$

Set 1 ... Write these as fractions:

a	40%

Percentages to decimals:

To change a percentage to a decimal, first change it to a fraction with a denominator of 100.

$$53\% = \frac{53}{100} = 0.53$$

Note that
$$0.53 = (0.53 \times 100)\%$$

Set 2 ... Write these as decimals :

Set 3 ... Write these as percentages :

$$\frac{47}{100}$$

b
$$\frac{16}{100}$$

$$c = \frac{73}{100}$$

d
$$\frac{41}{100}$$

$$\frac{e}{100}$$

$$f = \frac{92}{100}$$

$$\mathbf{g} = 0.58$$



Set 7 - convert these percentages to decimals note:

$$\frac{1}{2} = 0.5$$
, $\frac{1}{4} = 0.25$, $\frac{3}{4} = 0.75$

d
$$0.016\%$$

$$f = 3\frac{1}{2}\%$$

h
$$17\frac{1}{2}\%$$

j
$$7\frac{3}{4}\%$$

$$m = \frac{3}{4}\%$$

$$n = \frac{1}{2}\%$$

$$\mathbf{q} \quad 12\frac{1}{2}\%$$

$$s 8\frac{1}{4}\%$$

t
$$10\frac{1}{2}\%$$

u
$$6\frac{1}{4}\%$$

Set 8 find these amounts by using decimal multiplication:

eg:
$$7\%$$
 of $\$802 = 0.07 \times \$802 = \$56.14$

d
$$8\frac{1}{2}\% \text{ of } 96 \cdot 4t$$

$$\mathbf{f} = 6\frac{1}{4}\% \text{ of } \$960$$

$$\mathbf{g} \quad 2 \cdot 4\% \text{ of } 63 \cdot 871$$

$$\mathbf{j} \ 12\frac{1}{2}\% \text{ of } 8016\text{km}$$

$$k 17\frac{1}{2}\% \text{ of } 3040\text{kg}$$

$$1 \quad 10\frac{1}{4}\% \text{ of } \$6140$$

$$\mathbf{m} \quad 3\frac{3}{4}\% \text{ of } \$9642 \cdot 76$$

$$\mathbf{r} \quad 22\frac{1}{2}\% \text{ of } \$9643.82$$

s
$$50\%$$
 of $1\frac{1}{2}$

$$v = 6\frac{1}{2}\% \text{ of } 12\frac{1}{2}$$



ANSWERS

SET 13

- a Sunday
- **b** Profit = \$4025
- c 68 hours. note :2 \times \$12 \cdot 50 = \$25 \cdot 00
- **d** 30
- e \$240000 note: 25% of \$240000 = \$60000
- **f** Sally -14, Elizabeth -17
- g 1 hour 20 minutes
- h i Amount Fertilizer = 25m × 7m × 100g = 17.5kg
 - ii ∴ needs 18 bags i.e. cost = \$576
- i 52.94 hours
- j Only six patterns