

# Olis King's

Patent

## CALCULATOR

### OPERATING INSTRUCTIONS FOR MODEL N

OLIS KING'S Patent Calculator will solve, in a few seconds, any question of compound multiplication and division, or problems involving both; solve percentage problems, such as discounts, brokerage, interest, or rate of profit; resolve fractions of money; convert sterling into foreign currency, or vice versa. It is the only Calculator which will divide money by money direct.

The Instrument is simple, both in design and operation, and can be carried comfortably in the pocket. It consists of three parts, weighs only four ounces, and is practically indestructible.

The fundamental principle of this Instrument is so simple that five minutes study of it, in conjunction with the particulars given in this pamphlet, will enable you to acquire proficiency in its use.

#### General Description

The Calculator consists of three inseparable parts:

(1) **Top Scale**, from  $\frac{1}{4}$ d. to £1,000, graduated as follows:—

From	$\frac{1}{4}$ d.	to	1d.	by	$\frac{1}{64}$ th of a penny	From	£6	to	£12	by	1/-
"	1d.	"	2/6	"	$\frac{1}{8}$ th	"	£12	"	£24	"	2/-
"	2/6	"	5/-	"	$\frac{1}{4}$ d.	"	£24	"	£50	"	5/-
"	5/-	"	10/-	"	$\frac{1}{2}$ d.	"	£50	"	£100	"	10/-
"	10/-	"	£1	"	1d.	"	£100	"	£200	"	£1
"	£1	"	£2	"	2d.	"	£200	"	£400	"	£2
"	£2	"	£3	"	3d.	"	£400	"	£1,000	"	£5
"	£3	"	£6	"	6d.						

(2) **Bottom Scale**, from  $\frac{1}{4}$  to 2,500, graduated as follows:—

From	$\frac{1}{4}$	to	30	by	$\frac{1}{8}$ ths	From	250	to	500	by	2
"	30	"	60	"	$\frac{1}{4}$	"	500	"	1,250	"	5
"	60	"	125	"	$\frac{1}{2}$	"	1,250	"	2,500	"	10
"	125	"	250	"	1						

#### SPECIAL MARKINGS ON BOTTOM SCALE

1 litre, 1 kilogm, 5 kilogm, 10 kilos, 1 qr., 1 metre, 2 qrs., 3 qrs., 50 kilos, 1 cwt., 1 gross, 100 kilos, 2 cwts., 2 gross, 3 cwts., 3 gross, 4 cwts., 5 cwts., 4 gross, 5 gross, 6 gross, 500 kilos, 10 cwt., 10 gross, 12 gross, 1 mile, 1,000 kilos, 1 ton,  $\frac{1}{2}$  acre.

*Note of abbreviations of above markings is shown on bottom of scale.*

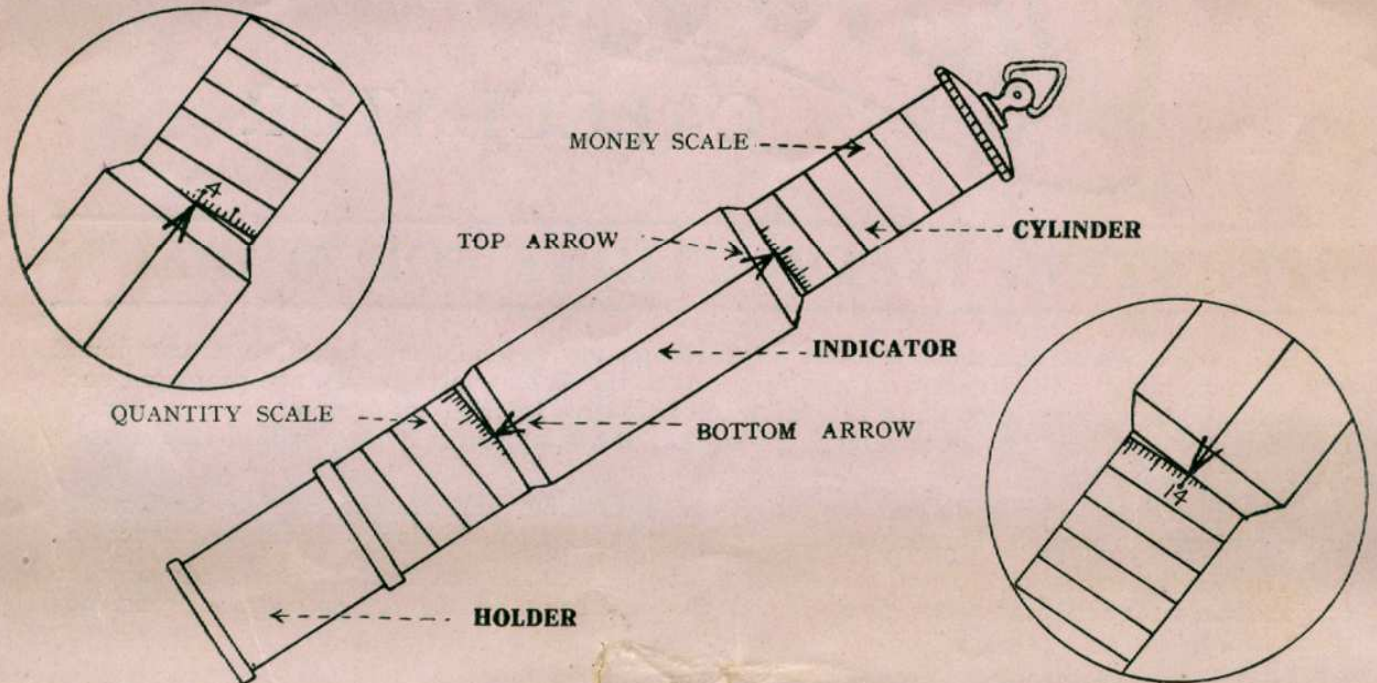
(3) **The Indicator**, on which two arrows are engraved.

On the following pages are given full instructions in the use of the Calculator, with a series of examples illustrating how it may be used to solve various problems of everyday occurrence.

**"It is as easy to set as a clock, and as plain to read as a yard stick."**

# HOW TO USE THE CALCULATOR

ALWAYS SET THE ARROWS  
TO THE LINES—NOT TO  
THE NUMBERS



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## SIMPLICITY OF OPERATION

There is only one sequence of movements, which must be adhered to, in operating the Instrument for all problems:—

- Movement 1.**—Take the **Holder** in the left hand, and open Calculator to full extent; set the bottom arrow of the **Indicator** to the known quantity on bottom scale.
- Movement 2.**—Move the **Cylinder** to set the known amount of money to the top arrow of the **Indicator** (*not the arrow to the money*).
- Movement 3.**—Move either arrow of the **Indicator** to the known factor of question. The companion arrow points to the answer.

Before proceeding to an example, give a few minutes to an examination of the scales; you will thereafter be able to read quickly and accurately the value of every mark, and easily judge intermediate values.

## EVERYDAY EXAMPLES.

### To Multiply Money by Numbers

Set bottom arrow to 1. Set known amount of money to top arrow. Move bottom arrow to multiplier. Read answer at top arrow.

Multiply 10s. by 7. *Answer*: £3 10s. 0d.

What is cost of 9 yards at 1s. 0 $\frac{3}{4}$ d. per yard? *Answer*: 9s. 6 $\frac{3}{4}$ d.

What is value of 1 gross of articles at 3s. 6 $\frac{1}{2}$ d. each? *Answer*: £25 10s. 0d.

### To Divide Money by Numbers

Set bottom arrow to divisor. Set known amount of money to top arrow. Move bottom arrow to 1. Read answer at top arrow.

Divide £3 10s. 0d. by 7. *Answer*: 10s.

360 articles cost £24. What is the cost of 1? *Answer*: 1s. 4d.

# EVERYDAY EXAMPLES

## To Divide Money by Money Direct

Set bottom arrow to 1. Set smallest sum to top arrow.

Move top arrow to largest sum. Read answer at bottom arrow.

How many times is 10s. contained in £3 10s. 0d.? *Answer* : 7.

How many articles at 3s. 6½d. can I buy for £25 10s. 0d.? *Answer* : 144.

## To Solve Fractions of Money Direct

Set bottom arrow to denominator. Set money to top arrow. Move bottom arrow to numerator. Read answer at top arrow.

What is 7/10ths of £3 10s. 0d.? *Answer* : 49s.

What is 10/7ths of £3 10s. 0d.? *Answer* : 100s.

## To Solve Money Percentages

Set bottom arrow to 100 on quantity scale. Set capital amount to top arrow. The Instrument is now set to solve any percentage problems, *i.e.*, OF—ON—or OFF.

### PERCENTAGE OF (10% of £5=10s.)

#### (a) To find amount where rate % is known.

Set Calculator as above; move bottom arrow to given rate %. Read answer at top arrow.

*Example* : What is 6% of £7 10s. 0d.? *Answer* : 9s.

#### (b) To find rate %.

Set Calculator as above; move top arrow to amount of interest. Read rate % at bottom arrow.

*Example* : What rate % is 9s. of £7 10s. 0d.? *Answer* : 6%.

### PERCENTAGE ON (10% on £5=£5 10s. 0d.)

#### (a) To find amount where rate % is known.

Set Calculator as above; move bottom arrow to 100 plus rate %. Read answer at top arrow.

*Example* : What is £7 10s. 0d. plus 6%? *Answer* : £7 19s. 0d.

#### (b) To find rate %.

Set Calculator as above; move top arrow to increased money. Read 100 plus rate % at bottom arrow.

*Example* : What rate % on £7 10s. 0d. is £7 19s. 0d.? *Answer* : 6%.

### PERCENTAGE OFF (10% off £5=£4 10s. 0d.)

#### (a) To find amount where rate % is known.

Set Calculator as above; move bottom arrow to 100 minus required rate %. Read answer at top arrow.

*Example* : £7 10s. 0d. less 6%. *Answer* : £7 1s. 0d.

#### (b) To find rate %.

Set Calculator as above, move top arrow to decreased amount. Read 100 minus rate % at bottom arrow.

*Example* : What % off £7 10s. 0d. is £7 1s. 0d.? *Answer* : 6%.

## To Calculate Interest for a given number of days

This is a combination of "Percentage ON" and "Fractions of Money." First find the amount of interest for one year at the given rate %, then :—

Set bottom arrow to 365. Set amount of interest to top arrow. Move bottom arrow to number of days, and read answer at top arrow.

*Example* : What is the interest on £7 10s. 0d. for 115 days at 6% per annum. *Answer* : 2s. 10d. 6% on £7 10s. 0d. for 365 days = 9s. 115/365ths of 9s. = 2s. 10d.

## For the Conversion of Sterling into Foreign currency and vice versa

The following movements are common to all Exchange Calculations :—

Set bottom arrow to rate of exchange. Set top arrow to 20s. (*N.B.*—The Instrument is now set to perform any calculation based on this rate of exchange.)

### To Convert Sterling to Foreign Currency.

Set Calculator as above. Move top arrow to sterling amount, and read equivalent foreign currency at bottom arrow.

*Example* : How many dollars shall I get for £10 15s. 0d. at \$4.75 to the £1. *Answer* : \$51.

### To Convert Foreign Currency into Sterling.

Set Calculator as above. Move bottom arrow to amount of foreign currency, and read sterling equivalent at top arrow.

*Example* : What is sterling value of \$51 at \$4.75 to the £1. *Answer* : £10 15s. 0d.

# EVERYDAY EXAMPLES

## To Calculate Value by Weights

### AVOIRDUPOIS

*Example:* 1 cwt. costs 24/6. What is the cost of 32 lbs. ?

112  
Set bottom arrow to 32. Set 24/6 to top arrow. Move bottom arrow to 32. Read *answer* at top arrow.

### METRIC

1,000 kilos cost £37 10s. 0d. What is the price per kilo ?

Set bottom arrow to 1,000 kilos. Set £37 10s. 0d. to top arrow. Move bottom arrow to 1 kilo. Read *answer* at top arrow.

## To Convert from Avoirdupois to Metric Weights, and vice versa

(a) 1 cwt. costs £35. What is the price per kilo ?

Set bottom arrow to 1 cwt. Set £35 to top arrow. Move bottom arrow to 1 kilo. Read *answer* at top arrow.

(b) 100 kilos cost £25. What is the price per lb. ?

Set bottom arrow to 100 kilos. Set £25 to top arrow. Move bottom arrow to 1. Read *answer* at top arrow.

*N.B.*—When using the instrument for *conversion* problems of this nature, it must be borne in mind that the numerals on the bottom scale represent the *English* standard, i.e., lbs., inches, pints, etc., as the case may be.

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