



Oakwood Maths

Basic Skills Logs

Platinum Award



Name: _____ Class: _____



This is the **Platinum Basic Skills Maths Award**, where you will be building on the skills you have learned so far. You will be combining different skills, knowledge and operations to solve complex problems.

When you are ready for your final test, you **must** make sure you are still confident with your skills from the Bronze, Silver and Gold logs too, as you will be tested on those again as part of being tested on Platinum skills.



I can divide any number by 4 and 8 using halving as a strategy

eg. $\frac{1}{4}$ of 356 - halve and halve again

$$\frac{1}{2} \text{ of } 356 = 150 + 25 + 3 = 178$$

$$\frac{1}{2} \text{ of } 178 = 50 + 35 + 4 = \mathbf{89}$$

Tip! Partition the number and halve each bit (as above!)

eg. $580 \div 8$ - halve, halve and halve again

$$\frac{1}{2} \text{ of } 580 = 250 + 40 = 290$$

$$\frac{1}{2} \text{ of } 290 = 100 + 45 = 145$$

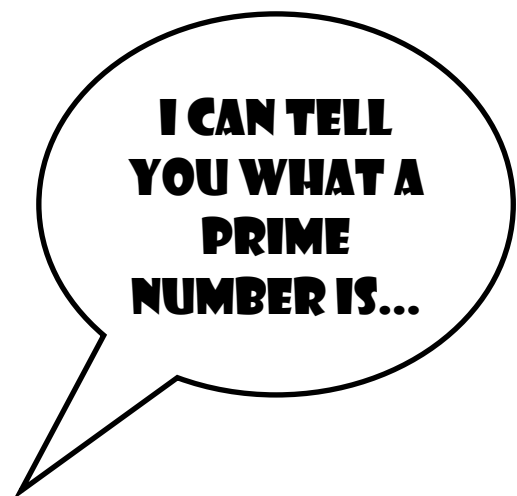
$$\frac{1}{2} \text{ of } 145 = 50 + 20 + 2.5 = \mathbf{72.5}$$



Date achieved:

I can recall all prime numbers to 20 and find all prime numbers up to 100

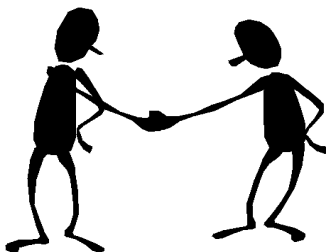
PRIME NUMBERS									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



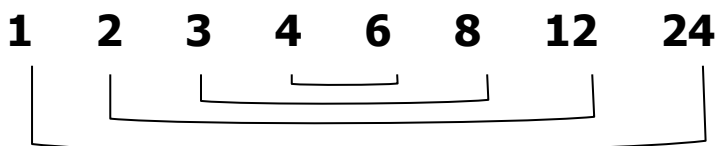
Date achieved:

I can use knowledge about factors from the Bronze Tables log to factorise any number (including larger numbers with the help of a calculator)

eg. I can **factorise** 24 and show **factor pairs**



Tip! Start with one and the number itself and work inwards



eg. I can **factorise** a bigger number like **96** and show **factor pairs**

1 2 3 4 6 8 12 16 24 32 48 96

Tip! Start with one and the number itself and work inwards - you can use a calculator if you need to...

1 x 96 2 x 48 3 x 32 4 x 24
6 x 16 8 x 12

Date achieved:

I know common fraction, decimal and percentage equivalents and use them in calculations.

You will also be tested on the fraction, decimal and percentage equivalent section in the Silver Log.

Date achieved:

Fraction	Decimal	Percentage	Operation
$\frac{2}{5}$	0.4	40%	$\div 5 \times 2$
$\frac{3}{5}$	0.6	60%	$\div 5 \times 3$
$\frac{4}{5}$	0.8	80%	$\div 5 \times 4$
$\frac{1}{3}$	≈ 0.33	$\approx 33\%$	$\div 3$
$\frac{2}{3}$	≈ 0.66	$\approx 66\%$	$\div 3 \times 2$
$\frac{1}{8}$	0.125	12.5%	$\div 8$
$\frac{1}{20}$	0.05	5%	$\div 20$

I can solve a calculation involving multiplication, division, fractions or percentages, solve the calculation (with jottings) and explain which strategies I used and how that strategy was efficient...

For example:

What is 21×17 ?

There are lots of ways to do this

You could use **partition** as a strategy...

$$10 \times 17 = 170$$

$$10 \times 17 = 170$$

$$1 \times 17 = 17$$

$$\text{So } 21 \times 17 = 357$$

You could use **near multiples of ten** as a strategy...

20×17 is the same as

$$2 \times 17 \times 10 = 340$$

and

$$1 \times 17 = 17$$

$$\text{So } 21 \times 17 = 357$$

Date achieved:

What's 27% of £35.00

You could use **known equivalents** as a strategy...

$27\% \approx 25\% \approx \frac{1}{4}$
So halve (£17.50), halve again (**£8.75**)
and then add 2%

1% of £35.00 = 35p, so 2% of £35.00 = **70p**
 $£8.75 + 70p = \mathbf{£9.45}$

You could find **common percentages** as a strategy...

10% of £35.00 = £3.50
So 5% of £35.00 = £1.75
And 1% of £35.00 = 35p

We need 10% + 10% + 5% + 1% + 1%
 $£3.50 + £3.50 + £1.75 + 35p + 35p$
= £9.45

What is $\frac{2}{3}$ of 456ml?

Divide by the bottom

$$456 \div 3 = \mathbf{152}$$

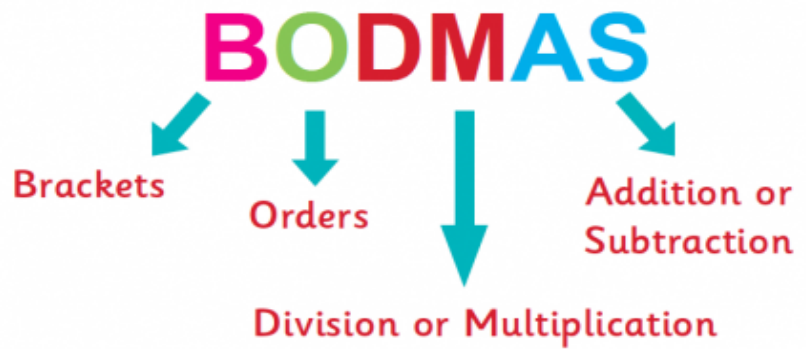
Times by the top

$$\mathbf{152} \times 2 = 304$$

304ml

Date achieved: _____

I can solve a calculation using brackets involving addition, subtraction multiplication and division.



Order of Operations

B	Brackets	$10 \times (4 + 2) = 10 \times 6 = 60$
O	Order	$5 + 2^2 = 5 + 4 = 9$
D	Division	$10 + 6 \div 2 = 10 + 3 = 13$
M	Multiplication	$10 - 4 \times 2 = 10 - 8 = 2$
A	Addition	$10 \times 4 + 7 = 40 + 7 = 47$
S	Subtraction	$10 \div 2 - 3 = 5 - 3 = 2$

$(45 - 23) + (5 \times 8) =$

$38 - (5 \times 7) =$

$(100 - 45) + (7 \times 7) =$

$45 - (9 \times 4) =$

Date achieved:

I can add and subtract fractions (including mixed numbers) with different denominators.

$$\frac{2 \times 4}{3 \times 4} + \frac{3 \times 3}{4 \times 3} = \frac{8}{12} + \frac{9}{12}$$

$$2\frac{1}{6} + 4\frac{2}{3}$$

$$\frac{2}{3} + \frac{3}{4}$$

3 : 3, 6, 9, 12

4 : 4, 8, 12, 16

Date achieved:

Congratulations, you have completed the Platinum Award.



School Signature

Date



Oakwood Maths

Basic Skills Logs

At Oakwood Primary School, we have a Basic Skills Log system, which leads to awards.



Rockets, Stars and Planets

These three logs are worked through in Years R, 1 and 2. They help embed basic knowledge of the number system and number bonds.

Children should aim for all three awards by the end of Year 2.



The Bronze Award

This is knowing all your tables up to 12×12 and all the division facts which go with them.

Children should aim for this by the end of Year 4.



The Silver Award

This is using your multiplication and division facts to multiply and divide by multiples of 10, knowing square numbers, doubling and halving and knowing common fraction equivalents.

Children should aim for this by the end of Year 5.



The Gold Award

This is using your multiplication and division facts to work with money, decimals and having a range of mental maths strategies for all occasions!

Children should aim for this by the end of Year 6.

When children have achieved the **Gold Award**, they can move on to the **Platinum** and **Platinum Plus Awards**.