**First Name Last Name**

[­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] [\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_]

**Teacher’s Name**

[­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_]

HOME LEARNING PACK

TERM 5

YEAR 11: NON-CALCULATOR

FOUNDATION PLUS – Grade 3 - 5

|  |  |  |  |
| --- | --- | --- | --- |
| Write $\frac{15}{45}$ in its simplest form. | How many metres are in 5 kilometres? | Find the circumference. Give your answer in terms of $π.$Image result for circle radius | Simplify $x^{4}×x^{8}$. |
| Decrease £500 by 20%. | Find the value of $5^{2}×2^{3}$. | Calculate $\frac{1}{12}÷\frac{9}{4}$. | List the first 5 prime numbers. |
| Calculate $\frac{2}{5}+\frac{1}{4}$ . | Find the value of $5+\sqrt{81}×4$. | Write 100 as a product of prime factors. | Solve $2x+7=22$. |

|  |  |  |  |
| --- | --- | --- | --- |
| Find the value of $y$. | Expand $6x(2x+3)$. | Find the area.Image result for l shape | Find the length w. |
| Ben and Tyrell share £55 in the ratio 2:3. How much does Tyrell get? | Image result for cylinderFind the volume of a cylinder with radius 4cm and height 10cm. Give an exact answer. |
| Solve $5x-4=3x+12$. | Work out the interior angle of a regular octagon. | Expand and simplify $(x+2)(x+5)$. |

|  |  |  |  |
| --- | --- | --- | --- |
| Factorise $5x^{2}+20xy$. | Find the area.Image result for area of a triangle | Lucy flips two fair coins. What’s the probability she gets two tails? | What’s the gradient of the straight line with equation$y=5-2x$ ? |
| What type of correlation is shown here?Image result for scatter graph | If $a = 6$ and $b = 4$, find:$$- a-b$$$$- a+b$$$$a+(-b)$$$$a-(-b)$$ | What’s the lowest common multiple of 6 and 8? | I scored 24 out of 40 on a test. What’s that as a percentage? |
| Complete the blanks:

|  |  |
| --- | --- |
| $$3^{3}$$ |  |
|  | $$9$$ |
| $$3^{1}$$ |  |
| $$3^{0}$$ |  |
|  | $$\frac{1}{3}$$ |

 | It costs £150 to buy 9 games. How much does it cost to buy 12 games? |

|  |  |  |  |
| --- | --- | --- | --- |
| Multiply$2×10^{5}$ by $7 ×10^{8}$.Give your answer in standard form. | Find angle a and give reasons.https://3.bp.blogspot.com/-8ZyluUCpAfw/WIuhRaimJpI/AAAAAAAAUkM/nfk1WXd1olQRhMD0X2Lns_GuhwhZo2p9gCLcB/s1600/Picture1.png | Solve $15<3+6x$. | If a man walks 1.3km in 15 minutes, what is his average speed in km/h? |
| Translate the point A by $\left(\begin{matrix}3\\-2\end{matrix}\right)$. Label the translated point B.Image result for grid point aWhat are the coordinates of B? | Name each type of sequence:1. 1, 1, 2, 3, 5, 8, …
2. 3, 7, 11, 15, 19, …

c) 1, 2, 4, 8, 16, 32, … | Find the length of the edge of a cube which has surface area $54cm^{2}.$ |
| Factorise $x^{2}+9x+8$. | Solve $x^{2}+6x=0$. |