by cdmasterworks Ltd
Numeracy for Learning, Life and Work

November National Maths Calendar \#abitofmathseveryday

| $1$ $\frac{x}{4}+\frac{x}{2}=$ | 2 Calculate the area | $3$ <br> eq | $4$ <br> Simplify... | 5 A box of cereal is on special offer and contains 600 grams. This is $20 \%$ more than the standard box. How many grams does the standard box contain? | 6 Determine whether this triangle is right-angled... |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7 Write the following in it's simplest $\frac{4 x^{2} \times 6 x^{8}}{3 x^{5}}$ index <br> form... | 8 A function is defined as $f(x)=x^{2}+9 x$ <br> Find $f(-2)$. | 9 Multiply out the following brackets and simplify... $(2 x-7)\left(x^{2}+4 x-5\right)$ | $\begin{gathered} 10 \begin{array}{c} \text { Calculate the ene } \\ \text { standard deviation } \\ \text { for the following } \\ \text { data set... } \end{array} \\ 72,74,75,79 \end{gathered}$ | system of equations... $\begin{aligned} & 3 x+2 y=14 \\ & 5 x-3 y=17 \end{aligned}$ | 12 <br> Factorise... $3 c^{2}+2 c-5$ |
| 13 Calculate.. $3 \frac{1}{3} \div 1 \frac{4}{5}$ | subject of the formula to $r$... $e=9 r^{2}+1$ | missing volume... <br> Volume $=80 \mathrm{~mm}^{3}$ Volume $=$ ? | following in the form... $\begin{array}{r} y=(x+a)^{2}+b \\ y=x^{2}+4 x-2 \end{array}$ |  | Add the following fractions... $\frac{5}{(x+3)}+\frac{3}{(x+7)}$ |
| 19 Express the following with a rational denominator and simplify if required... |  | will there be in a bank account when $£ 6000$ is invested for 3 years at $4.7 \%$ per annum? |  |  | $5$ |
| range for the following data set... $8,14,12,7,16,15$ |  | 27 Express this fraction in it's simplest form... $\frac{x^{2}-36}{x^{2}+3 x-18}$ |  | Calculate $\|\boldsymbol{a}+\boldsymbol{b}\|$. | 30 Solve equat $\begin{array}{r} 7 \sin x^{\circ}-1= \\ \text { for } 0 \leq x \leq 36 \end{array}$ |

