|  | I | ED |  |  | $33 \sqrt{31}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> $10 / 4$ <br> Calculate <br>  <br>  <br> 5 V 19 to 1 dp | $11 / 4 \quad £ 1=\$ 1.63$ <br> How many younds would <br> you get for $\$ 130$ ? | $12 / 4$ what is the volume of a cuboid with side lengths $5.3 \mathrm{~cm}, 9.7 \mathrm{~cm}$ and 12.2 cm ? | $13 / 4$ Olivia has a wage rise <br> of $2.5 \%$ Hersalary in now <br> $£ 34,850$, what was it before? | $\begin{array}{\|l\|l} \text { 14/4 Calculate the } \\ \text { perimeter (to } 1 \mathrm{pd} \text { ) of a } \\ \text { semi-circle if } \mathrm{r}=7 \mathrm{~cm} \end{array}$ | The cost of hiring a car is given by, Cost $(£)=$ No. of days $\times 14.50+27.75$ Rob has $£ 125$, for how many days can he hire the car? |
| 17/4 Alex and Beth share eceives $f 37$ less than Beth. How much was originally shared? | 18/4 Calculate the area (to 1dp) of a semi-circle if $\mathrm{d}=10 \mathrm{~cm}$ |  | 20/4 How many sides does a polygon have with exterior angles of $12^{\circ}$ ? | $\begin{array}{\|c} 21 / 4 \\ \begin{array}{c} \text { Calculate to } 2 \mathrm{dp} \\ \frac{23.54 \times 2.3^{4}}{19.2-11.32} \end{array} \\ \hline \end{array}$ | Find the length (to 1 dp ) of the hypotenuse of a right-angled triangle with side lengths 8.2 cm and 5.6 cm . |
| $\begin{array}{\|c\|} \hline 24 / 4 \text { Calculate the height of a } \\ \text { trapezium given the base is } \\ 8.2 \mathrm{~cm} \text { the oppositite earallel side } \\ \text { is } 12.6 \mathrm{~cm} \text {, and the area } 156 \mathrm{~cm} \end{array}$ | 25/4 Calculate the area of an equilateral triangle with side length 7 m | $\begin{array}{\|cc} \hline 26 / 4 & \text { Calculate } \\ \sqrt[3]{\left(3.92-1.2^{2}\right)} \text { to } 3 \mathrm{sf} \end{array}$ | $\begin{gathered} \text { 27/4 } P \text { is directly proportional } \\ \text { to the scuare of } Q \text { If } P=12 \\ \text { when } Q=6 . \text { C Calculate } P \text { when } Q \\ \text { is } 27 \end{gathered}$ | $\begin{gathered} 28 / 4 \text { if } 5 \text { miles }=8 \mathrm{~km} \\ \text { What is } 12 \mathrm{~km} / \mathrm{h} \text { in } \\ \text { miles per hour? } \end{gathered}$ | David puts $£ 300$ into a savings account paying $3.2 \%$ compound interest per annum. How much is in his account after 4 years? |
| 01/5 What is the side length of a cube with a volume of $118 \mathrm{~mm}^{3}$ ? | 02/5 A 450g tub of yogurt contains 133 of sugar. How much sugar is in a 80 g tub? | 03/5 $\qquad$ B 1.3m, BC 1.6m, and angle $\angle B A C 42^{\circ}$ Find the angle $\angle A C B$ | 04/5 <br> Solve the equation <br> $2 x^{2}+3 x-7=2$ | $\begin{gathered} 05 / 5 \text { Calculate } a_{4} \\ \text { if } a_{0}=2 \text { and } \\ a_{n+1}=1.4 a_{n}+1.3 \end{gathered}$ | Find the perimeter of a right-angled triangle $\triangle A B C$ with hypotenuse $A B$ 10.2 cm , and angle $\angle B A C 50^{\circ}$ |
| 08/5 $f(x)=x^{2}-\sqrt[3]{x}$ <br> Calculate $\mathrm{f}(4.2)$ to 2 dp | $09 / 5$ What is the volume of a cone with height 12 cm and radius 3 cm ? | 10/5 What is the diameter of a circle (to $3 \mathrm{sf})$ with area of $12 \mathrm{~cm}^{2}$ ? |  |  |  reduced her time by 15 min . Calculate her average speed home. |
| 15/5 What is the volume of a cylinder with height 6 m \& diameter 3 m ? |  | $17 / 5$ What is the surface area of a cuboid with side lengths of $5.1 \mathrm{~cm}, 4.3 \mathrm{~cm}$ and 7.2 cm ? | $\begin{gathered} 18 / 5 \text { What is the value of the } \\ 15^{n} \text { t term in the sequence given } \\ 3 n^{2}-2 n+5 \text { ? } \end{gathered}$ |  |  |
| 22/5 $\qquad$ cylinder in the question above, if its density is $1.8 \mathrm{~kg} / \mathrm{m}^{3}$ ? | 23/5 A dress is reduced in a sale by $25 \%$, then the price is increased by $10 \%$. If the final price is $£ 64.35$, what was the original? hat was the original | 24/5 What is the area of the sector created in the 19/5 question? | Paper 1 Non- Calc |  | What is the length of the diagonal of a cuboid with side lengths $5.3 \mathrm{~cm}, 9.7 \mathrm{~cm}$ and 12.2 cm ? |
| $29 / 5$ A triangle $\triangle P Q R$ with <br> sides PQ 8cm, QR 6 cm , and $P R$ <br> 3 cm . Find the angle $\angle P R Q$ <br> (to 3sf) |  |  | 01/6 What is the surface area of a sphere of radius 1.2 m | $\begin{array}{cc} \hline 02 / 6 & f(x)=x^{2}-2 x \\ g(x)=\sqrt[3 x]{x} \\ \text { Calculate } g f(-5) \end{array}$ | Harry puts $£ 12,000$ in an account with $2.4 \%$ interest p.a. How many years before he has over $£ 13,500$ ? |
| $\begin{aligned} & 05 / 6 y \text { is inversely proportional } \\ & \text { to the cube of } x \text { Given that } x=2 \\ & \text { when } y=4, \text { find the value of } y \\ & \text { (to } 3 \text { sf) when } x=6 \end{aligned}$ |  angle to 1dp? | 07/6 A circular lawn with a border of 22 m is to be returfed at a cost of $£ 2.35$ per $\mathrm{m}^{2}$. How much will it cost? | 08/6 <br> $\begin{array}{c}\text { Paper } 2 \\ \text { Calculator }\end{array}$ |  | The volume of a square based pyramid, J, $25 \%$ smaller than the volume of another, $K$. If $K$ has height 45 m and base |
| $12 / 6$ What is the surface area of a hemisphere of diameter 2.8 m | 13/6 Paper 3 Calculator | PREPARE FOR THE CALCULATOR PAPERS, <br> Make sure you use ONE DAY AT A TIME... your calculator for each question! |  |  |  |


| $40 \pi$ | 10 | T130 | T0R | FR |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|cc\|} \hline 10 / 4 & 1.8 \\ & \begin{array}{c} 1.8 \\ \text { (to } 1 \mathrm{dp}) \end{array} \end{array}$ | ${ }^{11 / 4} \mathrm{f} 79.75$ | $12 / 4$ <br> $627.202 \mathrm{~cm}^{3}$ | ${ }^{13 / 4} £ 34,000$ | $36.0 \mathrm{~cm}$ | 6 days |
| $\begin{array}{ll} 17 / 4 & \\ & £ 148 \end{array}$ | $\begin{aligned} & 18 / 4 \\ & \\ & \hline 9.3 \mathrm{~cm}^{2} \end{aligned}$ | $\begin{array}{ll}19 / 4 & \\ \end{array}$ | $\begin{array}{\|ll} \hline 20 / 4 & \\ & 30 \end{array}$ | $\begin{array}{\|ll} \hline 21 / 4 & \\ & 83.60 \end{array}$ | 9.9 cm |
| $24 / 4$  <br>  15 cm | ${ }^{25 / 4} \underset{\text { (to } 1 \mathrm{dp} \text { ) }}{21.2 \mathrm{~cm}^{2}}$ | $\begin{array}{\|ll} \hline 26 / 4 & \\ & 1.35 \end{array}$ | $\begin{array}{ll} \hline 27 / 4 & \\ & 243 \end{array}$ | 28/4 7.5 mph | £340.28 |
| $01 / 5$ <br>  <br>  <br>  <br> (to 1 dp ) | $02 / 5$2.31 g <br> (to 2dp) | 03/5$32.9^{\circ}$ <br> (to $1 \mathrm{~d} p$ ) | ${ }^{04 / 5} \mathrm{x}=-3$ or 1.5 | $05 / 5$ 16.9 <br>  (to 1dp) | $24.6 \mathrm{~cm}$ <br> (to 1dp) |
| $08 / 5$  <br>  16.03 | ${ }^{09 / 5} 113.1 \mathrm{~cm}^{3}$ | ${ }^{10 / 5} 3.91 \mathrm{~cm}$ | ${ }^{11 / 5} 1.25 \mathrm{~m}^{2}$ | $\text { 12/5 } \begin{gathered} 6.99 \mathrm{~cm} \\ \text { (to } 2 \mathrm{dp} \text { ) } \end{gathered}$ | $\begin{aligned} & 93.3 \mathrm{~km} / \mathrm{h} \\ & \text { (to } 1 \mathrm{dp} \text { ) } \end{aligned}$ |
| $15 / 5$ <br> $42.4 \mathrm{~cm}^{3}$ <br> $(1 \mathrm{dp})$ | $\begin{array}{ll}16 / 5 & \\ & 1.47\end{array}$ | $\begin{array}{\|l\|} \hline 17 / 5 \\ 179.22 \mathrm{~cm}^{2} \end{array}$ | $\begin{array}{ll} \hline 18 / 5 & \\ & 650 \end{array}$ | ${ }^{19 / 5}$31.4 cm <br> (to 1 dp ) | 0.385 |
| $\begin{array}{\|cc\|} \hline 22 / 5 \\ & 76.4 \mathrm{~kg} \\ (1 \mathrm{dp}) \end{array}$ | $\begin{array}{ll}\text { 23/5 } & \\ & £ 78\end{array}$ | $\underbrace{24 / 5}_{\text {(to } 1 \mathrm{dp} \text { ) }} 188.5 \mathrm{~cm}^{2}$ | $25 / 5$ Paper 1 Non- Calc | $\begin{array}{\|ll} \hline 26 / 5 & \\ & 1024 \end{array}$ | 16.5 cm <br> (to 1dp) |
| $29 / 5$  <br>  $122^{\circ}$ | $\begin{array}{rr}30 / 5 & \\ & 9.75\end{array}$ | $\begin{aligned} & 31 / 5 x_{2}=23.6 \\ & x_{3}=773.7 \text { (to 1dp) } \end{aligned}$ | $01 / 6 \underset{\substack{18.1 \mathrm{~m}^{2} \\ \text { (to } 1 \mathrm{dp} \text { ) }}}{ }$ | $02 / 6$ 3.27 <br>  (to 2dp) | 5 years |
| $05 / 6$  <br>  0.148 | 06/6 $44.4{ }^{\circ}$ | $\begin{array}{rr}07 / 6 \\ & \\ & \\ & \\ & \\ \end{array}$ | 08/6 $\begin{array}{r}\text { Paper } 2 \\ \text { Calculator }\end{array}$ | ${ }^{09 / 6} 1.47 \mathrm{~g} / \mathrm{cm}^{3}$ | $18000 \mathrm{~m}^{3}$ |
| $\begin{array}{\|cc} 12 / 6 \\ & 18.5 \mathrm{~m}^{2} \\ (1 \mathrm{dp}) \end{array}$ | $\begin{array}{rr}13 / 6 & \\ \text { Paper } 3 \\ \text { Calculator }\end{array}$ |  | HM? | EP50000 | 等势 |

