| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference. <br> All the angles are less than $180^{\circ}$. |  |
| :---: | :---: |
| $A \widehat{D} B=20^{\circ}$ | $A \widehat{B} C=20^{\circ}$ |
| What is $A \hat{C} B$ ? | What is $A \hat{C} B$ ? |
| $A \hat{C} B=20^{\circ}$ | $A \widehat{B} C=20^{\circ}$ |
| What is $A \hat{B} C$ ? | What is $A \widehat{D} B$ ? |
| $A \widehat{D} B=20^{\circ}$ | $A \widehat{D} B=90^{\circ}$ |
| What is $A \hat{B} C$ ? | What is $A \hat{E} B$ ? |
| $A \widehat{D} B=20^{\circ}$ | $A \hat{C} B=20^{\circ}$ |
| What is $A \hat{E} B$ ? <br> (2 answers) | What is $A \widehat{D} B$ ? (2 answers) |


| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference. All the angles are less than $180^{\circ}$. |  |
| :---: | :---: |
| Ratio <br> $A \widehat{D} B$ and $A \widehat{E} B$ are in the ratio 2:7. <br> What is $A \widehat{D} B$ ? | Equations <br> $A \widehat{B} C$ is $10^{\circ}$ greater than $A \widehat{D} B$. <br> What is $A \widehat{B} C$ ? |
| Percentages <br> $A \hat{B} C$ is $25 \%$ of the size of $A \hat{C} B$. <br> What is $A \widehat{B} C$ ? | Averages <br> The mean of $A \hat{C} B$ and $A \widehat{D} B$ is $24^{\circ}$. <br> What is $A \widehat{D} B$ ? |
| Sequences <br> The angles of quadrilateral $A B D E$ form an arithmetic sequence. The smallest angle is $45^{\circ}$. What is the second smallest angle? | Bounds <br> $A \hat{C} B$ is $30^{\circ}$, to the nearest $10^{\circ}$. <br> What is the range of possible values for $A \widehat{D} B$ ? |


| Circle Theorems <br> is the centre of the circle, all other points are on the circumferenc <br> All the angles are less than $180^{\circ}$ |  |
| :---: | :---: |
| $A \widehat{D} B=20^{\circ}$ <br> What is $A \hat{C} B$ ? |  |
| $A \hat{C} B=20^{\circ}$ <br> What is $A \hat{B} C$ ? | $5$ |
| $A \widehat{D} B=20^{\circ}$ <br> What is $A \hat{B} C$ ? |  |
| $\begin{gathered} A \widehat{D} B=20^{\circ} \\ \text { What is } A \widehat{E} B ? \\ (2 \text { answers }) \end{gathered}$ |  |


| Circle Theorems |  |
| :---: | :---: |
| $A \hat{B} C=20^{\circ}$ <br> What is $A \hat{C} B$ ? |  |
| $A \hat{B} C=20^{\circ}$ <br> What is $A \widehat{D} B$ ? |  |
| $A \widehat{D} B=90^{\circ}$ <br> What is $A \hat{E} B$ ? |  |
| $\begin{gathered} A \hat{C} B=20^{\circ} \\ \text { What is } A \widehat{D} B ? \\ (\text { (2 answers }) \end{gathered}$ |  |


| Circle Theorems |  |
| :---: | :---: |
| $C$ is the centre of the circle, all other points are on the circumference. |  |
| All the angles are less than $180^{\circ}$. |  | Ratio | $A \widehat{D} B$ and $A \widehat{E} B$ are |
| :--- |
| in the ratio $2: 7$. |
| What is $A \widehat{D} B$ ? |
| Percentages |
| $A \hat{B} C$ is $25 \%$ of the |
| size of $A \hat{C} B$. |
| What is $A \hat{B} C$ ? |
| Sequences |
| The angles of |
| quadrilateral $A B D E$ form |
| an arithmetic sequence. |
| The smallest angle is $45^{\circ}$. |
| What is the second |
| smallest angle? |


| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference. All the angles are less than $180^{\circ}$. |  |
| :---: | :---: |
| Equations <br> $A \widehat{B} C$ is $10^{\circ}$ greater than $A \widehat{D} B$. <br> What is $A \widehat{B} C$ ? |  |
| Averages <br> The mean of $A \hat{C} B$ and $A \widehat{D} B$ is $24^{\circ}$. <br> What is $A \widehat{D} B$ ? |  |
| Bounds <br> $A \hat{C} B$ is $30^{\circ}$, to the nearest $10^{\circ}$. <br> What is the range of possible values for $A \widehat{D} B$ ? |  |


| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference All the angles are less than 180 |  |
| :---: | :---: |
| $A \widehat{D} B=20^{\circ}$ <br> What is $A \hat{C} B$ ? | $40^{\circ}$ |
| $A \hat{C} B=20^{\circ}$ <br> What is $A \hat{B} C$ ? | $80^{\circ}$ |
| $A \widehat{D} B=20^{\circ}$ <br> What is $A \hat{B} C$ ? | $70^{\circ}$ |
| $A \widehat{D} B=20^{\circ}$ <br> What is $A \hat{E} B$ ? (2 answers) | $20^{\circ}$ or $160^{\circ}$ |


| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference. All the angles are less than $180^{\circ}$. |  |
| :---: | :---: |
| $A \hat{B} C=20^{\circ}$ <br> What is $A \hat{C} B$ ? | $140^{\circ}$ |
| $A \widehat{B} C=20^{\circ}$ <br> What is $A \widehat{D} B$ ? <br> 2 answers) | $70^{\circ}$ or $110^{\circ}$ |
| $A \widehat{D} B=90^{\circ}$ <br> What is $A \hat{E} B$ ? | $90^{\circ}$ |
| $\begin{gathered} A \hat{C} B=20^{\circ} \\ \text { What is } A \widehat{D} B \text { ? } \\ \text { (2 answers) } \end{gathered}$ | $10^{\circ}$ or $170^{\circ}$ |


| Circle Theorems |  |
| :---: | :---: |
| matememememm |  |
| eaio | $40^{\circ}$ |
| $A \widehat{D} B$ and $A \hat{E} B$ are <br> in the ratio 2 |  |
| What is $A \bar{D}$ ? |  |
| Perembsese | $30^{\circ}$ |
| $A \widehat{B} C$ is $25 \%$ of the <br> size of $A C B$ |  |
| Whatis $A B C$ ? |  |
| Sevenes | $105^{\circ}$ |
| The andeso fiomm |  |
|  |  |
| com |  |


| Circle Theorems <br> $C$ is the centre of the circle, all other points are on the circumference. All the angles are less than $180^{\circ}$. |  |
| :---: | :---: |
| Equations <br> $A \hat{B} C$ is $10^{\circ}$ greater than $A \widehat{D} B$. <br> What is $A \hat{B} C$ ? | $50^{\circ}$ |
| Averages <br> The mean of $A \hat{C} B$ and $A \widehat{D} B$ is $24^{\circ}$. <br> What is $A \widehat{D} B$ ? | $16^{\circ}$ |
| Bounds <br> $A \hat{C} B$ is $30^{\circ}$, to the nearest $10^{\circ}$. <br> What is the range of possible values for $A \widehat{D} B$ ? | $\begin{gathered} 12.5^{\circ} \leq \theta<17.5^{\circ} \\ \text { or } \\ 172.5<\theta \leq 177.5 \end{gathered}$ |

