**Areas of Sectors and Lengths of Arcs GREEN**

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| **Question 1**Calculate the length of arc $AB$ in the sectors below. Give your answers correct to $1$ decimal place. |
| a) | b) | c) |
| **Question 2**Calculate the area of each sector below. Give your answers correct to $1$ decimal place. |
| a) | b) | c) |

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| **Question 3**In each diagram below the length of arc $AB$ is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a) | b) | c) |
| **Question 4**In each diagram below the area of the sector is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a) | b) | c) |

**Areas of Sectors and Lengths of Arcs AMBER**

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| **Question 1**Calculate the length of arc $AB$ in the sectors below. Give your answers correct to $1$ decimal place. |
| a)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_$  | b) | c) |
| **Question 2**Calculate the area of each sector below. Give your answers correct to $1$ decimal place. |
| a)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_^{2}$  | b) | c) |

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| **Question 3**In each diagram below the length of arc $AB$ is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a)$12.56=\frac{θ}{360}×π×24$  | b) | c) |
| **Question 4**In each diagram below the area of the sector is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a)$120=\frac{θ}{360}×π×14^{2}$  | b) | c) |

**Areas of Sectors and Lengths of Arcs RED**

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| **Question 1**Calculate the length of arc $AB$ in the sectors below. Give your answers correct to $1$ decimal place. |
| a)$AB=\frac{80}{360}×π×24$  $=$ | b)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_\\_$  | c)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_\\_$  |
| **Question 2**Calculate the area of each sector below. Give your answers correct to $1$ decimal place. |
| a)$AB=\frac{45}{360}×π×11^{2}$  | b)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_^{2}$  | c)$AB=\frac{ }{360}×π×\\_\\_\\_\\_\\_^{2}$  |

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| **Question 3**In each diagram below the length of arc $AB$ is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a)Solve this equation:$12.56=\frac{θ}{360}×π×24$  | b) | c) |
| **Question 4**In each diagram below the area of the sector is given. Calculate the size of the angle at the centre of the sector. Give your answer correct to the nearest degree |
| a)Solve this equation:$120=\frac{θ}{360}×π×14^{2}$  | b) | c) |