## Angles Level 1 and 2

## Question 1 (Non-Calculator Level 2)

Dan wants to make a template for a cone hat.
The template is made by removing a sector from a circle.
He wants the angle of the sector to be $\frac{3}{20}$ of a full turn.


Work out the angle of the sector $x$ in the diagram.

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## Question 2 (Calculator Level 2)

Eric is designing the lettering for a new shop sign for computing business K.X. He needs to calculate the angles in each letter.

Eric knows his letter K has one line of symmetry.

(a) Work out the size of the angle marked $x$
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(b) Work out the size of the angle marked $y$

## Question 3 (Calculator Level 2)

Simon is planning to build a shed in his garden.
He draws a sketch of his garden.


Simon wants to put the shed where the angle $x$ is marked.
(a) Work out the size of the angle marked $x$.

Simon draws a sketch of the plan view, front elevation and side elevation of the shed he designs.

(b) Which 3d shape could be the design of the shed?

Tick the correct answer.square based pyramidtriangular based pyramidtriangular prism
$\square$

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cuboid
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## Question 4 (Calculator Level 1)

Here is an angle.

(a) Measure the size of the angle marked $x$.

Here is a rectangle.

(b) Draw all the lines of symmetry on this rectangle.

Tamsin is facing North. She turns to face South.
( c ) How many degrees has she turned through?

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## Mark Scheme

| Question | Process | Mark | Mark <br> Ref | Evidence |
| :--- | :--- | :---: | :---: | :--- |
| Q1 | Begins process to find <br> angle $x$ | 1 or | A | $360 \div 20(=18)$ oe |
|  | Full process to find angle <br> $x$ | 2 or | AB | '18' x 3 (=54) oe |
|  | Accurate figure | 3 | ABC | $54\left({ }^{\circ}\right)$ |
|  | Total marks for question | $\mathbf{3}$ |  |  |


| Question | Process | Mark | Mark <br> Ref | Evidence |
| :--- | :--- | :---: | :---: | :--- |
| Q2(a) | Process to calculate angle | 1 or | A | $(180-110) \div 2(=35) \mathbf{o e}$ |
|  | Accurate figure | 2 | AB | $35\left({ }^{\circ}\right)$ |
| Q2(b) | Accurate figure | 1 | C | $80\left({ }^{\circ}\right)$ |
|  |  |  |  |  |
| Total marks for question |  |  |  |  |


| Question | Process | Mark | Mark <br> Ref | Evidence |
| :--- | :--- | :---: | :---: | :--- |
| Q3(a) | Process to find angle $x$ | 1 or | A | $360-90-125-40(=105)$ oe |
|  | Accurate figure | 2 | AB | $105\left({ }^{\circ}\right)$ |
| Q3(b) | Correct answer indicated | 1 | C | Triangular prism |
|  |  |  |  |  |
| Total marks for question |  |  |  |  |


| Question | Process | Mark | Mark <br> Ref | Evidence |
| :--- | :--- | :---: | :---: | :--- |
| Q4(a) | Accurately measured <br> angle | 1 | A | $150^{\circ}\left(+/-2^{\circ}\right)$ |
| Q4(b) | Draws lines of symmetry | 1 | B | Two lines of symmetry and no <br> extra |
| Q4(c) | Correct answer | 1 | C | $180\left({ }^{\circ}\right)$ |
|  |  |  |  |  |
| Total marks for question |  |  |  |  |

