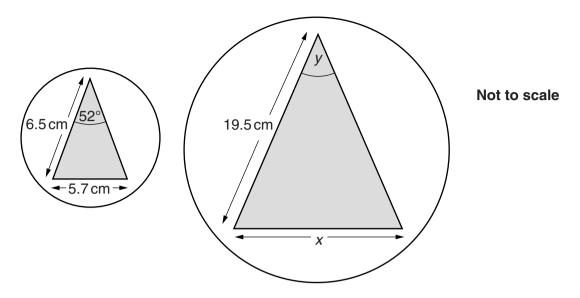
(b)g [3]

| 1 | The | a awards ceremony, both the first prize and the second prize are statues. • statues are mathematically similar and made from the same material. • first prize statue is 20 cm tall and the second prize statue is 15 cm tall. |
|---|-----|---|
| | (a) | The diameter of the base of the smaller statue is 6 cm. |
| | | Calculate the diameter of the base of the larger statue. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | (a)cm [3] |
| | | (a) |
| | (b) | The larger statue has a mass of 700 g. |
| | (b) | |
| | (b) | The larger statue has a mass of 700 g. |
| | (b) | The larger statue has a mass of 700 g. |

2 Solve algebraically these simultaneous equations.

$$3x + 4y = 17$$
$$5x - 6y = 22$$

3 These diagrams are mathematically similar.



(a) Calculate the length x.

| (a) | cm [3] |
|-----|--------|
| (4) | |

(b) What is the size of angle y?

| (b) | 0 | [| 1 | |
|-----|---|---|---|--|
|-----|---|---|---|--|

(c) The area of the smaller circle is 51 cm².Calculate the area of the larger circle.