

Name: _____

BennettMaths AQA 3F – Part 2

- 8 Three plums have masses of 40 g, 40 g and 35 g

Show that their **total** mass is between $\frac{1}{10}$ and $\frac{1}{8}$ of a kilogram.

[3 marks]

- 9 For each statement, tick the correct box.

[3 marks]

	Always true	Sometimes true	Never true
At least one of the three angles in a triangle has to be acute.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All three angles in a triangle are the same size.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One of the three angles of a triangle is obtuse.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10 (a) Simplify fully $m^5 \times m^3$

[1 mark]

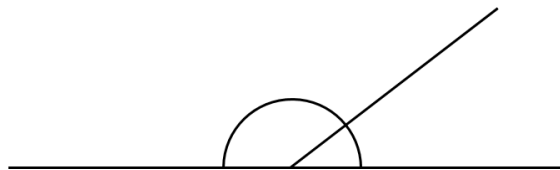
Answer _____

10 (b) Simplify fully $8h + 9g - 2h + 5g$

[2 marks]

Answer _____

11 Two angles on a straight line are shown.



Not drawn
accurately

The angles are in the ratio $4 : 11$

Show that the smaller angle is 48°

[2 marks]

12 (a) $a > 7$ $b < 3$ $a - b = 10$

Work out a possible pair of values for a and b .

[2 marks]

$$a = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}}$$

12 (b) w is greater than 4 **and** less than 5
 x is greater than 1 **and** less than 2

$w + x = 6.5$

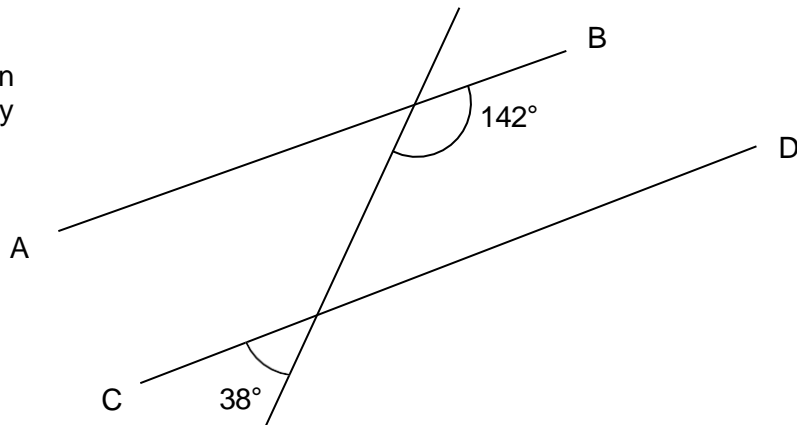
Work out a possible pair of values for w and x .

[2 marks]

$$w = \underline{\hspace{2cm}} \quad x = \underline{\hspace{2cm}}$$

13

Here are three straight lines.

Not drawn
accuratelyAre the lines AB and CD parallel?

Tick a box.

Yes

☐

No

☐

Show working to support your answer.

[2 marks]

Turn over for the next question

- 14** Match the algebra to the correct description.
One has been done for you.
- [3 marks]**

$4(a + 3) \equiv 4a + 12$	Identity
$3b - 6a$	Formula
$5x + 7 = 22$	Equation
$A = 2r + 6d$	Inequality
	Expression

15

Potatoes are sold in bags.

2 large bags have a total mass of 650 g

4 small bags and 3 large bags have a total mass of 1975 g

Work out the mass of a small bag.

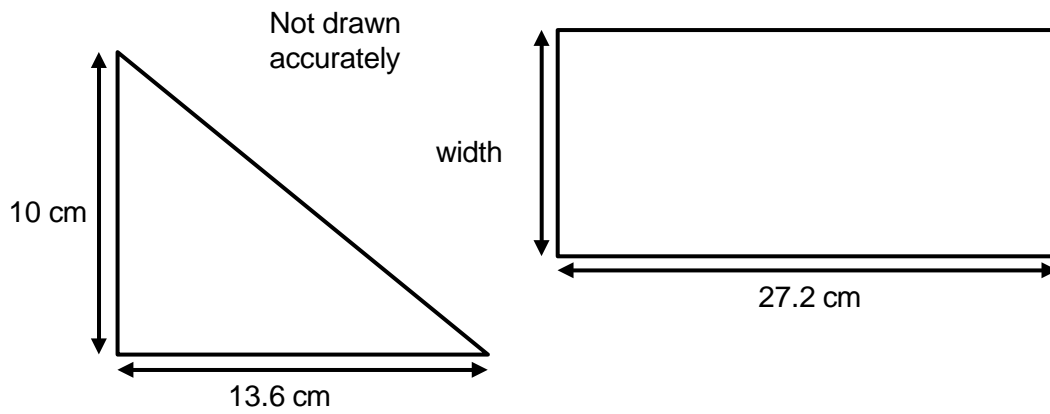
[4 marks]

Answer _____ g

Turn over for the next question

16

The square and the triangle have the same area.



Work out the width of the rectangle.

[3 marks]

Answer _____ cm