# Algebra Toolkit

**Question Paper** 

Course	EdexcelIGCSEMaths
Section	2. Equations, Formulae & Identities
Торіс	Algebra Toolkit
Difficulty	Easy

Time allowed:	30
Score:	/22
Percentage:	/100

#### Question 1



You can work out the amount of medicine, cml, to give to a child by using the formula

$$c = \frac{ma}{150}$$

*m* is the age of the child, in months. *a* is an adult dose, in *ml*.

A child is 30 months old. An adult's dose is 40 *ml*.

Work out the amount of medicine you can give to the child.

[2 marks]

# **Question 2**

f = 3g + 7h

Work out the value of f when g = -5 and h = 2

[2 marks]

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### **Question 3**

Simplify	4y +	2x -	3	+	3x	+	8
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#### Question 4

Simplify 6g - 5h - 4g + 2h

[2 marks]

[2 marks]

# **Question 5**

Simplify ab - 5g + 5ab - 2g

[2 marks]

### **Question 6**

Circle the expression that is equivalent to  $3a - a \times 4a + 2a$ 

$8a^2 + 2a$	$12a^2$	$5a - 4a^2$	$3a - 6a^2$

[1mark]

# **Question 7**

Sofia is trying to simplify  $\frac{6c+10}{2}$ 

Her method is

divide 6 c by 2 then add 10

Evaluate her method.

[1 mark]

#### **Question 8**

 $y = \frac{10}{x}$ 

If the value of *x* doubles, what happens to the value of *y*? Circle your answer.

÷2	×2	÷5	×5
			[1mark]

# **Question 9**

Simplify 3a + 7b - 4a + b.

[2 marks]

#### **Question 10**

Simplify.

3a-5b-a+2b

[2 marks]

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#### Question 11

Simplify 5c - d - 3d - 2c.

[2 marks]

#### **Question 12**

Find the value of 7x + 3y when x = 12 and y = -6.

[2 marks]

# Question 13

Complete the statement.

When w = ....., 10w = 70.

[1 mark]