Name:

Exam Style Questions

Identities, Formulae, Equations, Expressions, Inequalities etc

Corbettmaths

Equipment needed: Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 367a

Answers and Video Solutions

1. Match each of the following to the right description.

$8g + 3h$	identity
$j + j \equiv 2j$	expression
$5k + 1 = 36$	inequality
$2m < 9$	equation

(2)

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2. Here are 4 mathematical words.

Expression Identity Inequality Equation

Choose a word from the list above to complete each of these statements.

(a) $2x + 10y$ is an ……..

(1)

(b) $9 + x < 12$ is an ……..

(1)

3. Write down an example of

(a) An expression

.....

(1)

(b) An equation

.....

(1)

(c) An inequality

.....

(1)

(d) A formula

.....

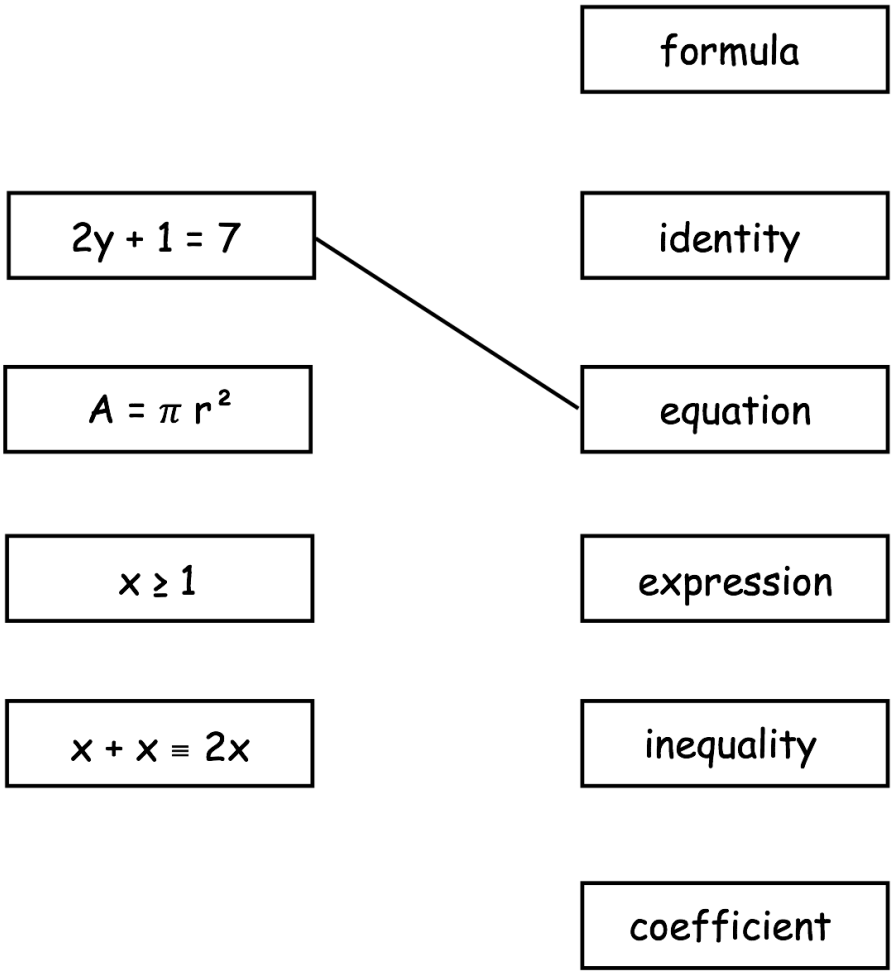
(1)

(e) An identity

.....

(1)

4. Match each of the following to the right description.



(2)

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5. Here are 6 mathematical words.

Coefficient Expression Identity Term Inequality Equation

Choose the words from the list above to complete this statement.

$4c$ is the last ..... of the ..... $2a + 5b + 4c$

(1)

6. (a) Tick the box that is next to the inequality.

$v = lwh$	
$3x + 2y$	
$9x - 10 = 17$	
$6a + 2a \equiv 8a$	
$5x - 1 \geq 7$	

(1)

(b) Tick the box that is next to the formula.

$10y - y \equiv 9y$	
$9x - 2y$	
$10x + 2 \geq 21$	
$A = \frac{1}{2}bh$	
$3x + 8 = 2$	

(1)

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7. Thekla writes down the expression $5x + 8y - 4z$

Write down the first term of the expression.

.....

(1)

8. Circle the identity

$\frac{7-x}{9} = x+1$ $\quad$ $(x+2)^2 \equiv x^2+4x+4$

$x^2+2x-15<0$ $\quad$ $(x+1)^3$

(1)

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9. Ndidi was asked to write down an identity.

She wrote down $10x \equiv 4x+12$

Explain her mistake.

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(1)