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

3. Write down an example of

(a) An expression

$11a + 4b$

(1)

(b) An equation

$x + 99 = 125$

(1)

(c) An inequality

$10x + 8 \geq 20$

(1)

(d) A formula

$P = 2L + 2w$

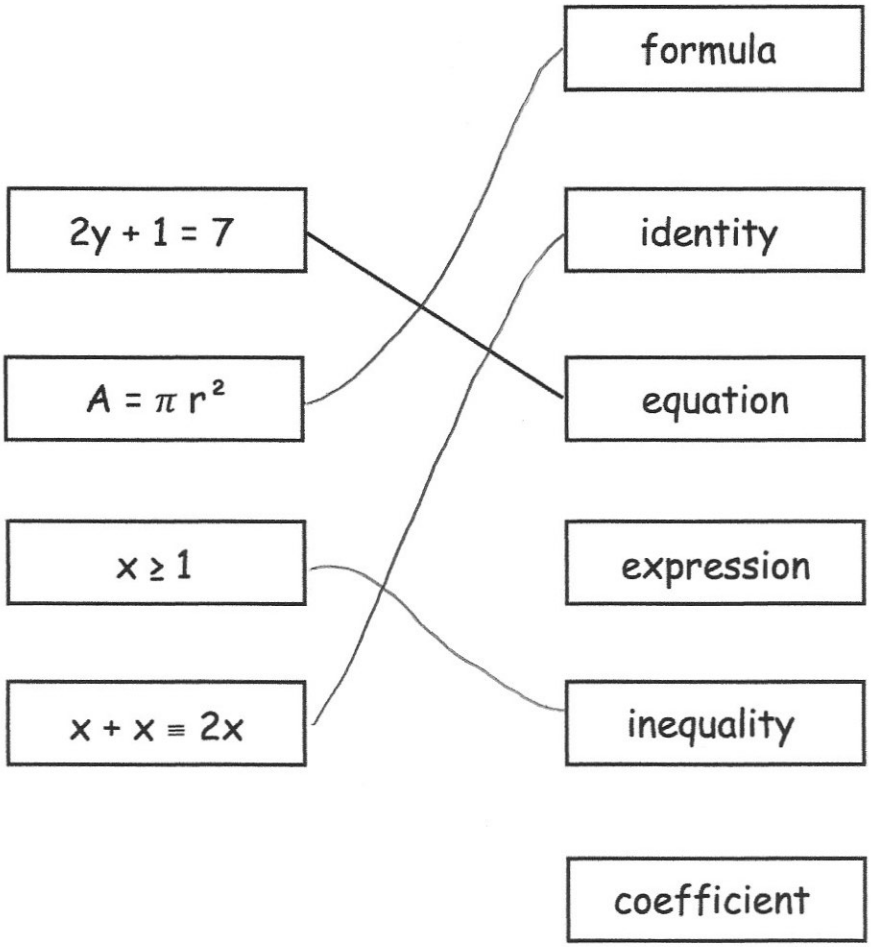
(1)

(e) An identity

$4x + x \equiv 5x$

(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 ..term.. of the ..expression.. $2a + 5b + 4c$

(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.

$5x$

.....

(1)

8. Circle the identity

$\frac{7-x}{9} = x+1$

$(x+2)^2 \equiv x^2+4x+4$

$x^2+2x-15<0$

$(x+1)^3$

(1)

9. Ndidi was asked to write down an identity.

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

Explain her mistake.

Ndidi has written down an equation, not an identity. $10x \equiv 4x+12$ is not satisfied by every value of x.

(1)