

Algebra With Classified answer book



1- Collecting Like Terms

1. Simplify

(i)
$$C+C+C+C$$

(iii)
$$3g + 5g$$

(iv)
$$2r \times 5p$$

2. (a) Simplify
$$5p + 2q - 3p - 3q$$

(ii)
$$-2r \times 5m$$

(a)
$$y^3 + y^3$$

(b)
$$n^2 + n^2 + n^2$$

4.	Simplify
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(a)
$$c + c + 4c$$

(b)
$$e + f + e + f + e$$

(d)
$$2xy + 3xy - xy$$

$$2x \times y \times 3$$

(b) Simplify
$$5x + 3y - 2x + y$$

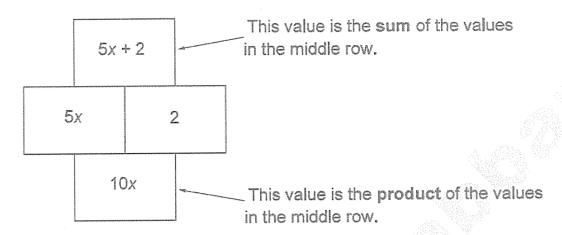
6. Here are the rules for an algebra grid.

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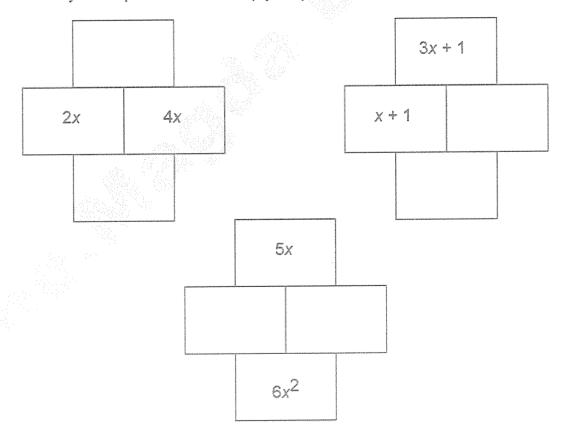
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Use these rules to complete the algebra grids below.

Write your expressions as simply as possible.



7. Look at the equation in the box.

$$x + (x+1) + (x+2) = y$$

Use it to help you write the missing expressions in terms of y. The first one is done for you.

$$5 + x + (x+1) + (x+2) = y+5$$

$$(x + 5)$$
 + $(x + 6)$ + $(x + 7)$ =

$$2x + 2(x + 1) + 2(x + 2) =$$

$$(x+a) + (x+1+a) + (x+2+a) =$$

8. (a) Here is an expression.

$$2a + 3 + 2a$$

Which expression below shows it written as simply as possible?Put a ring round the correct one.

7a
$$4a+3$$
 7+a $4(a+3)$ 2a+5

(b) Here is a different expression.

Write this expression as simply as possible. -

9. Write these expressions as simply as possible.

The first one is done for you.

$$n+1+2 \longrightarrow n+3$$

$$2n+7+n+2$$

10. (a) Here is an expression.

Which expression below shows it written as simply as possible?Put a ring round the correct one.

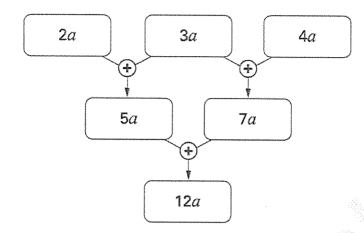
$$7a$$
 7 $4a+7$ $4a+7$ $4(a+7)$

(b) Here is a different expression.

$$3b + 4 + 5b - 1$$

Write this expression as simply as possible.

11. Look at this algebra grid.



Complete the algebra grids below, simplifying each expression.

