

Name:

Exam Style Questions

## Collecting like terms



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

### Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

# Video 9



1. (a) Simplify  $a + a + a$

.....  
(1)

(b) Simplify  $4a + 3a - a$

.....  
(1)

(c) Simplify  $4ac + 5ac$

.....  
(1)

(d) Simplify  $4c - 6c$

.....  
(1)

(e) Simplify  $a^2 + a^2$

.....  
(1)

2. (a) Simplify  $m + m + m + m$

.....  
(1)

(b) Simplify  $8c + 2p - 2c + 4p$

.....  
(2)

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3. Simplify  $6a + 5w - 2a + w$

.....  
(2)

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4. (a) Simplify  $9y - 3y$

.....  
(1)

(b) Simplify  $7y + 2w - 3y + 2w$

.....  
(2)

(c) Simplify  $7y + 10 + 3y - 9$

.....  
(2)

5. (a) Simplify  $s + s + s + s - s$

.....  
**(1)**

(b) Simplify  $5c - 3s + 3c + 7s$

.....  
**(2)**

(c) Simplify  $8a + 3c - 5c + 3a$

.....  
**(2)**

(d) Simplify  $3a + 2w - 5a - 9w$

.....  
**(2)**

(e) Simplify  $3y^2 + 2w^2 + y^2 - w^2$

.....  
**(2)**

6. (a) Simplify  $2x + 2x$

.....  
**(1)**

(b) Simplify  $7w - 2w$

.....  
**(1)**

(c) Simplify  $3m - m$

.....  
**(1)**

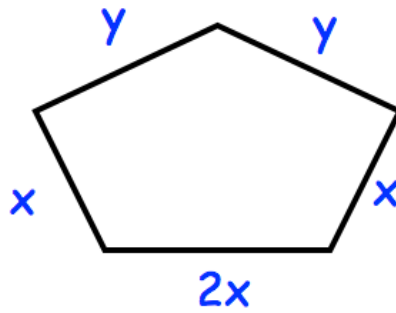
(d) Simplify  $y^2 + y^2 + y^2$

.....  
**(1)**

(e) Simplify  $7h + 5k + h - 3k$

.....  
**(2)**

7. Shown is a pentagon.

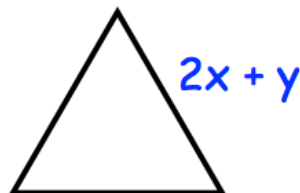


Find an expression for the perimeter of the triangle.

.....  
(2)

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8. Shown is a equilateral triangle.

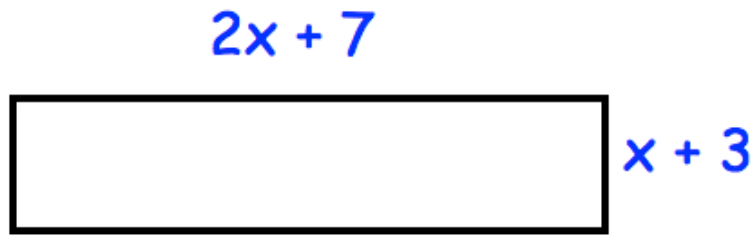


Each side is  $2x + y$

Find an expression for the perimeter of the triangle.

.....  
(2)

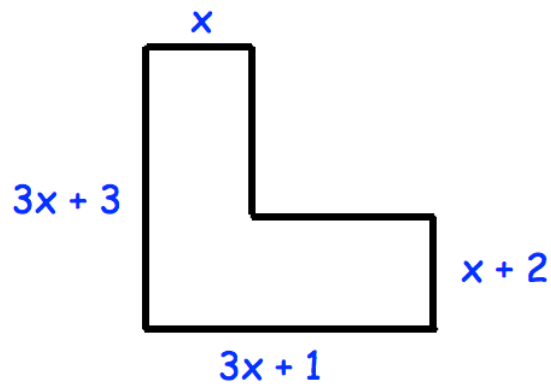
9. Shown is a rectangle.



Find an expression for the perimeter of the rectangle.

.....  
(2)

10.



Find an expression for the perimeter of this L shape.

.....  
(2)