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

Video 9

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

3a

.....

(1)

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

6a

.....

(1)

(c) Simplify $4ac + 5ac$

9ac

.....

(1)

(d) Simplify $4c - 6c$

-2c

.....

(1)

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

$2a^2$

.....

(1)

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

4m

(1)

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

6c + 6p

(2)

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

4a + 6w

(2)

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4. (a) Simplify 9y - 3y

6y

(1)

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

4y + 4w

(2)

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

10y + 1

(2)

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

$3s$

(1)

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

$8c + 4s$

(2)

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

$11a - 2c$

(2)

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

$-2a - 7w$

(2)

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

$4y^2 + w^2$

(2)

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

$4x$

.....

(1)

(b) Simplify $7w - 2w$

$5w$

.....

(1)

(c) Simplify $3m - m$

$2m$

.....

(1)

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

$3y^2$

.....

(1)

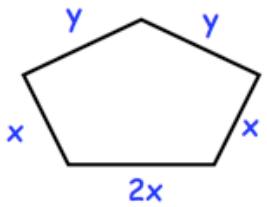
(e) Simplify $7h + 5k + h - 3k$

$8h + 2k$

.....

(2)

7. Shown is a pentagon.



Find an expression for the perimeter of the triangle.

4x + 2y

.....

(2)

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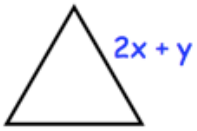
8. Shown is a equilateral triangle.



Each side is 2x + y

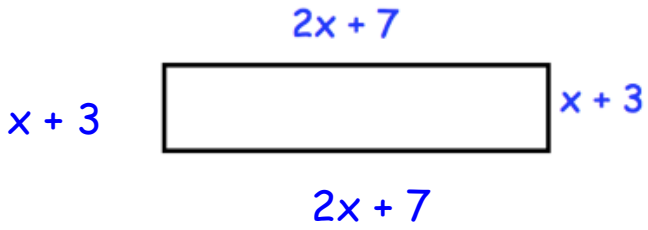
Find an expression for the perimeter of the triangle.

6x + 3y

.....

(2)

9. Shown is a rectangle.



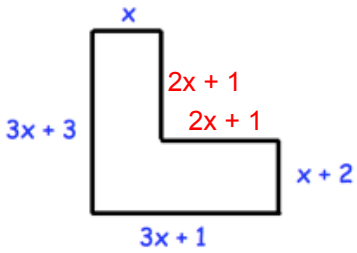
Find an expression for the perimeter of the rectangle.

6x + 20

.....

(2)

10.



Find an expression for the perimeter of this L shape.

12x + 8

.....

(2)