Building Blocks – Forming Equations with Perimeter
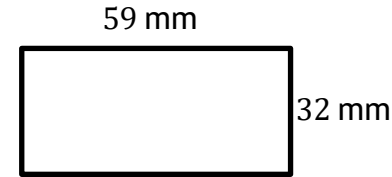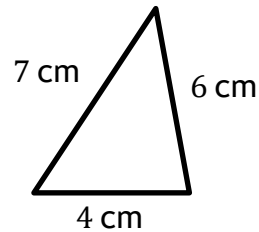
Block 1

Collect the like terms

➤ $x + 2x + 4x$

➤ $3y + 2 + 5y + 6$

➤ $2w - 7 + 3w + 6w + 2$
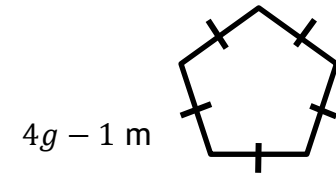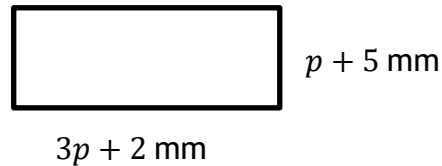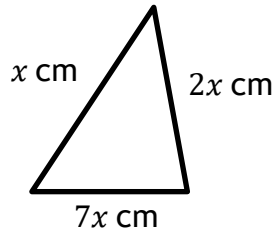
Find the perimeter

7 cm
6 cm
4 cm

59 mm
32 mm

Solve the equations

➤ $5x = 45$

➤ $6k + 7 = 37$

➤ $8t - 3 = 59$

Block 2

Write the expressions for the perimeters

x cm
$2x$ cm
$7x$ cm

$p + 5$ mm
$3p + 2$ mm

$4g - 1$ m

Block 3

Form and solve the equations (all lengths are given in cm)

x
$2x$
$7x$

Perimeter $= 90$ cm

$f + 3$
$4f + 1$

Perimeter $= 68$ cm

Find the perimeter of the rectangle. (All lengths are given in cm)

$7y - 2$
$3y$
$4y + 7$
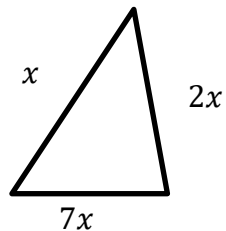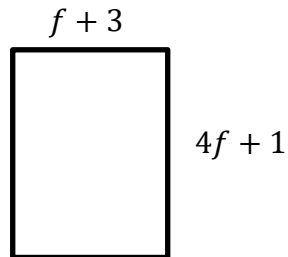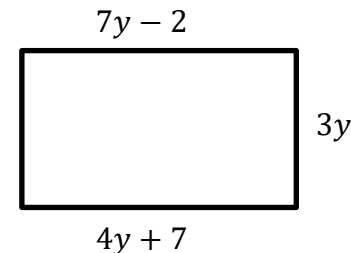
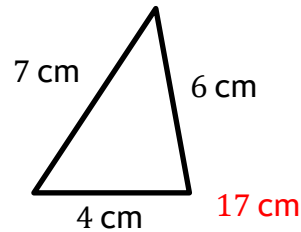# Building Blocks – Forming Equations with Perimeter

Block 1

Collect the like terms

- $x + 2x + 4x$ $7x$
- $3y + 2 + 5y + 6$ $8y + 8$
- $2w - 7 + 3w + 6w + 2$ $11w - 5$

Find the perimeter

7 cm, 6 cm, 4 cm 17 cm
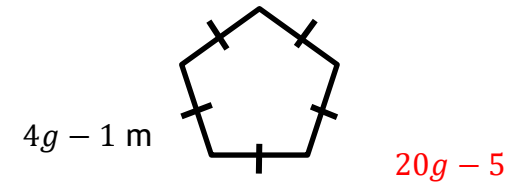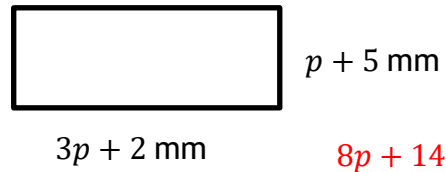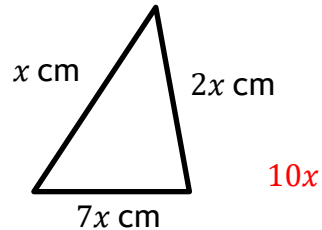
59 mm, 32 mm 182 mm

Solve the equations

- $5x = 45$ $x = 9$
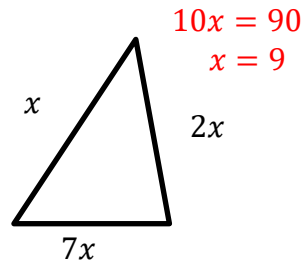- $6k + 7 = 37$ $k = 5$
- $8t - 3 = 59$ $t = 7.75$
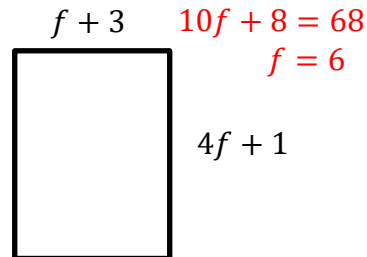
Block 2

Write the expressions for the perimeters

x cm, $2x$ cm, $7x$ cm $10x$

$p + 5$ mm, $3p + 2$ mm $8p + 14$

$4g - 1$ m $20g - 5$

Block 3

Form and solve the equations (all lengths are given in cm)

$10x = 90$
$x = 9$

x, $2x$, $7x$

Perimeter = 90 cm

$f + 3$ $10f + 8 = 68$
   $f = 6$

$4f + 1$

Perimeter = 68 cm

Find the perimeter of the rectangle.
(All lengths are given in cm)

$7y - 2 = 4y + 7$
$3y = 9$
$y = 3$

$7y - 2$, $3y$, $4y + 7$

Perimeter = 56 cm