1. Here are some shapes made from panel pins.

p

p ◢◣ p

p

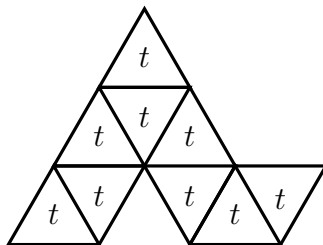p ▢ p

p
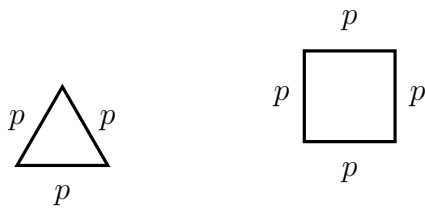
p is the length of each panel pin

$p = 20$ mm

Complete this table

shape	perimeter (in terms of p)	perimeter (mm)
triangle	$3p$	60
square	$4p$	

2. Here is a octagon made from tiles.

t is the area of each tile

$t = 8$ cm^2

Write down the area of the octagon

(i) in terms of t . . . .

(ii) in cm^2 . . . . cm^2

3. (a) $u = 4t$

$t = 9$

Find the value of u

(b) $A = 3w$

Work out the value of A when $w = 5$

(c) $x = 6$

Work out the value of $3x$

4. (a) $p = 3$

  $q = 8$

  Work out the value of $7p + 2q$

 (b) $y = 7n + 3d$

  $n = 2$

  $d = 5$

  Work out the value of y

 (c) $x = 30$

  $y = 9$

  $P = 2x + 3y$

  Find the value of P

5. {No calculator similar to strand 4 but with ONE negative (never negative $\times$ negative)}

 (a) $n = 4$

  $d = -5$

  Work out the value of $7n + 3d$

 (b) $x = 5$

  $y = 3$

  $P = 8x - 4y$

  Find the value of P

 (c) $p = -5$

  $q = 3$

  $W = 7p + 2q$

  Find the value of W

6.

6. not written yet

7. (a) Here is a way to convert oven temperatures from a gas mark into °F.

| Temperature °F | = | Gas mark × 25 | + | 250 |

Fletcher needs to convert gas mark 5 into °F.

Write down this temperature in °F.

(b) You can use this rule to work out the total wage of a delivery driver.

| £8 per hour plus tips |

Onile works as a delivery driver for 9 hours and got £17 tips.

Work out Onile's total wage.

(c) Here is the price list for motor racing experience laps.

Moto Experience

| First lap and training | £125 |
| All other laps | £35 |

Caz has booked and paid for 5 laps.

Work out the total cost of the 5 laps.