## Calculating Perimeter

1 Find the perimeter of the remaining piece of paper when a square or rectangle is cut out, as shown below.

(a)

8 cm

2 cm

2 cm

8 cm   Remaining

2 cm

6 cm

Cut out

2 cm

10 cm
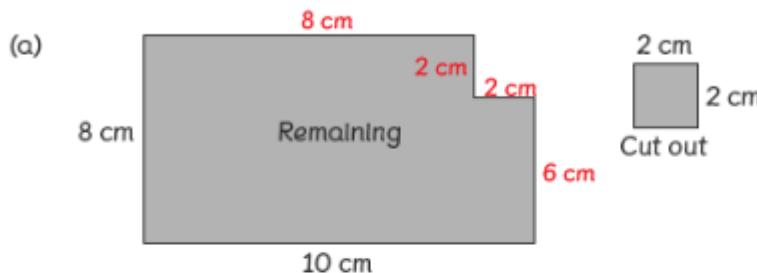
Perimeter = | 10 + 8 + 8 + 2 + 2 + 6 = 36 |

= | 36 | cm

(b)

4 cm

2 cm

12 cm   Remaining

12 cm

2 cm

4 cm

2 cm

Cut out

2 cm

16 cm
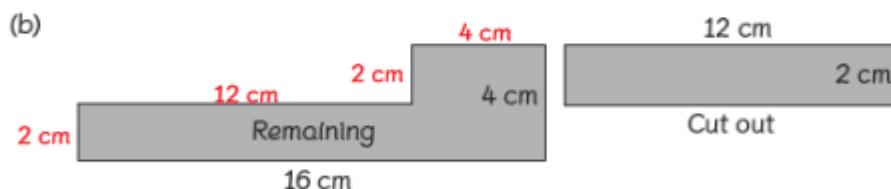
Perimeter = | 4 + 16 + 2 + 12 + 2 + 4 = 40 |

= | 40 | cm

2 Find the perimeter of the remaining piece of paper when two squares or rectangles are cut out, as shown below.

(a)

8 cm

3 cm

4 cm

4 cm

4 cm

4 cm   Remaining

10 cm

4 cm   4 cm

4 cm   Cut out   4 cm

6 cm

3 cm

12 cm
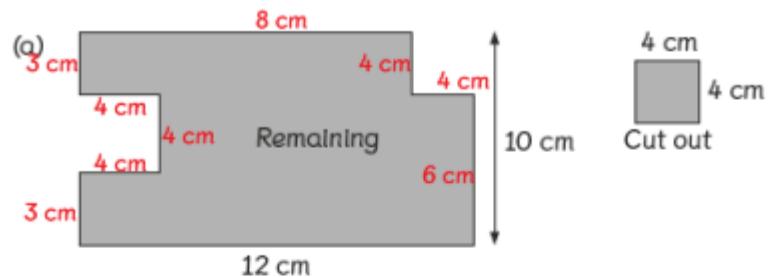
Perimeter = | 12 + 10 + 12 + 10 + 4 + 4 = 52
 (6 + 12 + 3 + 4 + 4 + 4 + 3 + 8 + 4 + 4 = 52) |

= | 52 | cm

(b)

5 cm

5 cm

2 cm

5 cm   5 cm

2 cm

3 cm

3 cm Remaining

5 cm

Cut out

5 cm   2 cm

5 cm   10 cm
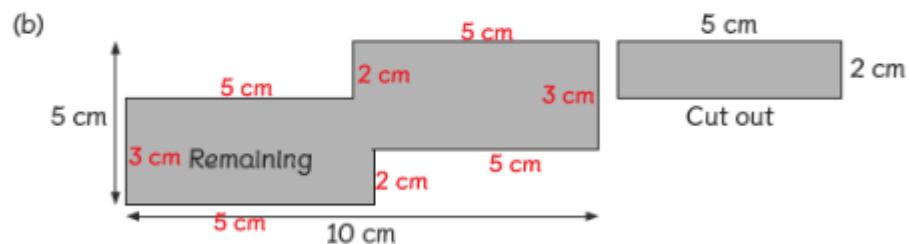
Perimeter = | 10 + 5 + 10 + 5 = 30
 (5 + 2 + 5 + 3 + 5 + 2 + 5 + 3 = 30) |

= | 30 | cm