

Outcome 4 - Composite Area

Bronze examples

Examples... Calculate the area of this composite shape...

$A_1 = 5 \times 7 = 35 \text{ cm}^2$
 $A_2 = 8 \times 4 = 32 \text{ cm}^2$
 Total Area = $35 + 32 = 67 \text{ cm}^2$

Silver example

Examples... Calculate the area of this composite shape...

$A_1 = 7 \times 9 = 63 \text{ m}^2$
 $A_2 = 8 \times 5 \div 2 = 20 \text{ m}^2$
 Total Area = $63 + 20 = 83 \text{ m}^2$

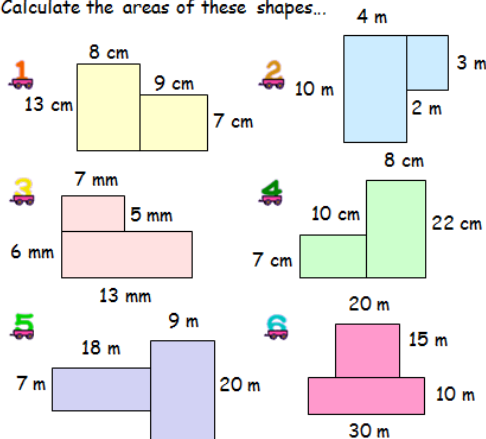
Gold example

Examples... Calculate the area of this composite shape...

$A_1 = 3 \times 8 = 24 \text{ m}^2$
 $A_2 = 6 \times 6 = 36 \text{ m}^2$
 $A_3 = 6 \times 2 \div 2 = 6 \text{ m}^2$
 Total Area = $24 + 36 + 6 = 66 \text{ m}^2$

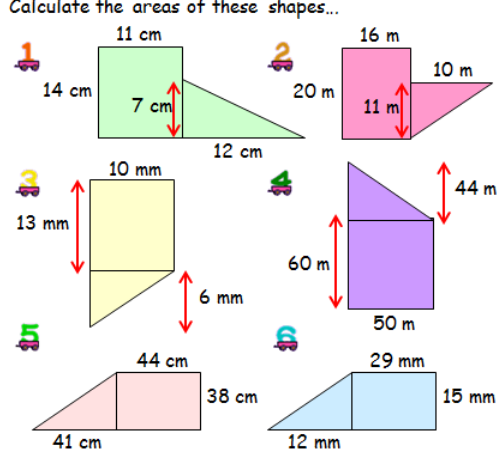
Bronze Questions

Calculate the areas of these shapes...



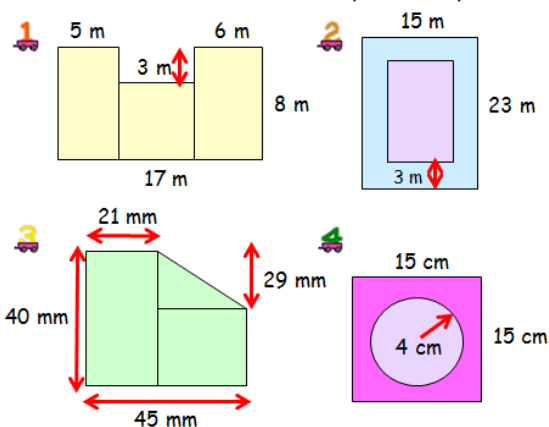
Silver Questions

Calculate the areas of these shapes...



Gold Questions

Calculate the area of these composite shapes...



Key Facts/Formulae:

****A composite shape is made up of more than 1 shape!****

Bronze Answers

- | | | | |
|----|--------------------|----|--------------------|
| 1. | 167 cm^2 | 2. | 46 m^2 |
| 3. | 113 mm^2 | 4. | 246 cm^2 |
| 5. | 306 m^2 | 6. | 600 m^2 |

Silver Answers

- | | | | |
|----|---------------------|----|--------------------|
| 1. | 196 cm^2 | 2. | 375 m^2 |
| 3. | 160 mm^2 | 4. | 4100 m^2 |
| 5. | 2451 cm^2 | 6. | 525 mm^2 |

Gold Answers

- | | | | |
|----|---------------------|----|-----------------------|
| 1. | 118 m^2 | 2. | 192 m^2 |
| 3. | 1452 mm^2 | 4. | 174.76 cm^2 |