Area Scale Factor

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 10cm  4cm | Scale Factor | New Length | New Width | Area Scale Factor | New Area |
| 2 | 20cm | 8cm | 22=4 | 160cm2 |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20cm  3cm | Scale Factor | New Length | New Width | Area Scale Factor | New Area |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 25cm  3cm | Scale Factor | New Length | New Width | Area Scale Factor | New Area |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 15cm  5cm | Scale Factor | New Length | New Width | Area Scale Factor | New Area |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |

Find scale factor and area

Area=

30cm

Area=

15cm

5cm

---------------------------------------------------------------------------------------------------------

Area=

Area=

2m

15m

5m

----------------------------------------------------------------------------------------------------------

Area=

5cm

Area= 50cm2

20cm

----------------------------------------------------------------------------------------------------------

Area= 6cm2

Area=

6cm

2cm

Volume Scale Factor

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 10cm  5cm  4cm | Scale Factor | New Length | New Width | New Height | Volume Scale Factor | New Volume |
| 2 | 20cm | 8cm | 10cm | 23=8 | 1600cm3 |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 6cm  4cm  3cm | Scale Factor | New Length | New Width | New Height | Volume Scale Factor | New Volume |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 8cm  6cm  4cm | Scale Factor | New Length | New Width | New Height | Volume Scale Factor | New Volume |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 12cm  5cm  2cm | Scale Factor | New Length | New Width | New Height | Volume Scale Factor | New Volume |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |