|  |
| --- |
| *Calculate the surface areas* for each of the objects below. |
| http://www.helpingwithmath.com/printables/worksheets/geometry/area17.gif20 by 2 by 2 rectangular prism - exploded viewarea =   168  cm2 |  |  |
| 3m square cube3m square cube - exploded viewarea =   54  m2 |  |  |
| 8 by 12 by 6 rectangular prism8 by 12 by 6 rectangular prism - exploded viewarea =   432  cm2 |  |  |

**Rectangular Prisms**

**Fill in the missing values for a rectangular prism.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.   |

|  |  |  |
| --- | --- | --- |
| length |    | 2 |
| width |    | \_\_\_\_\_\_\_\_ |
| height |    | 12 |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | 192 |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2.   |

|  |  |  |
| --- | --- | --- |
| length |    | 10 |
| width |    | 5 |
| height |    | \_\_\_\_\_\_\_\_ |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | 650 |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3.   |

|  |  |  |
| --- | --- | --- |
| length |    | 8.1 |
| width |    | \_\_\_\_\_\_\_\_ |
| height |    | 14.43 |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | 327.2724 |

 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 7.82 |
| height |    | 5 |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | 238.51 |

 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 7 |
| height |    | 5 |
| surface area |    | 358 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

 |

|  |  |
| --- | --- |
| 6.   |  |

 |
|

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7.   |

|  |  |  |
| --- | --- | --- |
| length |    | 14.6 |
| width |    | 1.7 |
| height |    | 8 |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 1 |
| height |    | 14 |
| surface area |    | 418 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9.   |

|  |  |  |
| --- | --- | --- |
| length |    | 2 |
| width |    | \_\_\_\_\_\_\_\_ |
| height |    | 10 |
| surface area |    | 190.24 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

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|

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 3 |
| height |    | 7 |
| surface area |    | 102 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 6 |
| height |    | 12 |
| surface area |    | 216 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12.   |

|  |  |  |
| --- | --- | --- |
| length |    | \_\_\_\_\_\_\_\_ |
| width |    | 13 |
| height |    | 7 |
| surface area |    | 302 |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

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|

|  |  |
| --- | --- |
| 13.   | **\* This is a pre-made sheet.Use the link at the top of the page for a printable page.** |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14.   |

|  |  |  |
| --- | --- | --- |
| length |    | 4 |
| width |    | 10 |
| height |    | \_\_\_\_\_\_\_\_ |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | 40 |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15.   |

|  |  |  |
| --- | --- | --- |
| length |    | 6 |
| width |    | 2.19 |
| height |    | 9 |
| surface area |    | \_\_\_\_\_\_\_\_ |
| volume |    | \_\_\_\_\_\_\_\_ |

 |

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**Surface Area**

**Find the surface area of each solid to the nearest tenth. (*use = 3.14*)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.   | http://www.edhelperclipart.com/clipart/mathpri6.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 21 cm |
| b  =   |    | 42 cm |
| c  =   |    | 40 cm |
| d  =   |    | 29 cm |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2.   | http://www.edhelperclipart.com/clipart/mathpri7.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 5 mm |
| b  =   |    | 12 mm |
| c  =   |    | 9.1 mm |
| d  =   |    | 13 mm |

 |

 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3.   | http://www.edhelperclipart.com/clipart/mathcyl1.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 4.8 in |
| b  =   |    | 6 in |

 |

 |
|

|  |  |
| --- | --- |
| 4.   | **\* This is a pre-made sheet.Use the link at the top of the page for a printable page.** |

 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.   | http://www.edhelperclipart.com/clipart/mathpri3.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 27 cm |
| b  =   |    | 32 cm |
| c  =   |    | 27 cm |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.   | http://www.edhelperclipart.com/clipart/mathpri6.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 4 in |
| b  =   |    | 16 in |
| c  =   |    | 6 in |
| d  =   |    | 5 in |

 |

 |
|

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7.   | http://www.edhelperclipart.com/clipart/mathcyl3.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 14 in |
| b  =   |    | 10.2 in |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8.   | http://www.edhelperclipart.com/clipart/mathpri2.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 35 cm |
| b  =   |    | 15 cm |
| c  =   |    | 21 cm |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9.   | http://www.edhelperclipart.com/clipart/mathpri7.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 33 mm |
| b  =   |    | 56 mm |
| c  =   |    | 9.5 mm |
| d  =   |    | 65 mm |

 |

 |
|

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10.   | http://www.edhelperclipart.com/clipart/mathpri3.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 3.4 mm |
| b  =   |    | 5.8 mm |
| c  =   |    | 5.8 mm |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11.   | http://www.edhelperclipart.com/clipart/mathpri2.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 23 in |
| b  =   |    | 2 in |
| c  =   |    | 6 in |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12.   | http://www.edhelperclipart.com/clipart/mathpri6.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 35 cm |
| b  =   |    | 43 cm |
| c  =   |    | 24 cm |
| d  =   |    | 37 cm |

 |

 |

**Surface Area**

**Find the surface area of each solid to the nearest tenth. (*use = 3.14*)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.   | http://www.edhelperclipart.com/clipart/mathpyr9.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 10 mm |
| b  =   |    | 14 mm |
| c  =   |    | 14 mm |

 |

 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2.   | http://www.edhelperclipart.com/clipart/mathpyr9.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 5.1 in |
| b  =   |    | 17 in |
| c  =   |    | 17 in |

 |

 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3.   | http://www.edhelperclipart.com/clipart/mathcon1.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 3.9 cm |
| b  =   |    | 15.8 cm |

 |

 |
|

|  |  |
| --- | --- |
| 4.   |  |

 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5.   | http://www.edhelperclipart.com/clipart/mathcon3.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 4 in |
| b  =   |    | 9 in |

 |

 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 6.   | http://www.edhelperclipart.com/clipart/mathcon2.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 2 mm |
| b  =   |    | 11.7 mm |

 |

 |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7.   | http://www.edhelperclipart.com/clipart/mathsph.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 10 mm |

 |

 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8.   | http://www.edhelperclipart.com/clipart/mathsph.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 6 cm |

 |

 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 9.   | http://www.edhelperclipart.com/clipart/mathcon2.gif

|  |  |  |
| --- | --- | --- |
| a  =   |    | 3 in |
| b  =   |    | 17 in |

 |

 |