**Similar Shapes**

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| Name : | Class : | Date : |

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| **1)** The two rectangles shown below are similar. The sides of Rectangle EFGH are three times as big as rectangle ABCD. Find the length and width of rectangle EFGH. http://www.mathster.com/course/simgs/146832527200_1.pnghttp://www.mathster.com/course/simgs/146832527200_2.png        Length = ..... cm     Width = ..... cm | [1] |
| **2)** The two rectangles shown below are similar. The sides of Rectangle EFGH are twice as big as rectangle ABCD. Find the length and width of rectangle ABCD. http://www.mathster.com/course/simgs/146832527200_3.pnghttp://www.mathster.com/course/simgs/146832527200_4.png        Length = ..... cm     Width = ..... cm | [1] |
| **3)** The two rectangles shown below are similar. Find the missing length,  , in rectangle ABCD. http://www.mathster.com/course/simgs/146832527200_5.pnghttp://www.mathster.com/course/simgs/146832527200_6.png          = ..... cm | [1] |
| **4)** The two rectangles shown below are similar. Find the missing length,  , in rectangle EFGH. http://www.mathster.com/course/simgs/146832527200_7.pnghttp://www.mathster.com/course/simgs/146832527200_8.png          = ..... cm | [1] |
| **5)** The two triangles shown below are similar. Find the missing length,  , in triangle ABC. http://www.mathster.com/course/simgs/146832527200_9.pnghttp://www.mathster.com/course/simgs/146832527200_10.png        ..... | [1] |
| **6)** The two triangles shown below are similar. Find the missing length,  , in triangle DEF. http://www.mathster.com/course/simgs/146832527200_11.pnghttp://www.mathster.com/course/simgs/146832527200_12.png        ..... | [1] |
| **7)** Triangle ABC is similar to triangle DEF. http://www.mathster.com/course/simgs/146832527200_13.pnghttp://www.mathster.com/course/simgs/146832527200_14.png   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Find | a) |  | ..... |  | b) |  | ..... |  | | [1] |
| **8)** Triangle ABC is similar to triangle DEF. http://www.mathster.com/course/simgs/146832527200_15.pnghttp://www.mathster.com/course/simgs/146832527200_16.png   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Find | a) |  | ..... |  | b) |  | ..... | c) |  | ..... | d) |  | ..... | | [1] |

**Solutions for the assessment Similar Shapes**

|  |  |
| --- | --- |
| **1)** Length = 27 cm, Width = 21 cm, | **2)** Length = 9 cm, Width = 7 cm, |
| **3)**   = 9 cm | **4)**   = 30 cm |
| **5)**   = 6 cm | **6)**   = 10 cm |
| **7)**   = 9 cm,   = 33 cm | **8)**   = 10 cm,   = 32 °,   = 46 °,   = 33 cm |