

Worksheet

05/09/2020

Free on dw-math.com

Problem quickname: 9001

1)

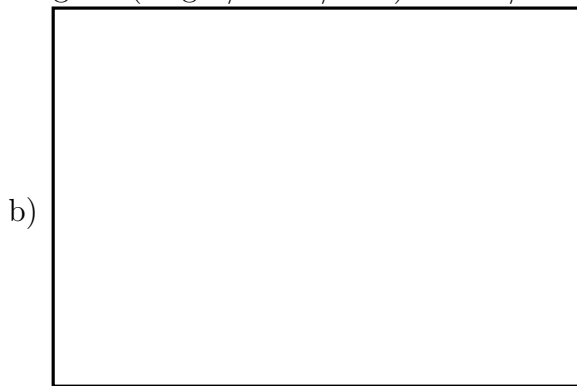
The rectangle shown has been reduced by the scale factor indicated. What is its area in this drawing? What is the length, width and area of the original unscaled rectangle?

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9001*Scale:1:500000*

Answer:

Drawing (length/width/area) : 1 dm/3 cm 6 mm/36 cm²

Original (length/width/area): 50 km/18 km/

*Scale:1:125000*

Answer:

Drawing (length/width/area) : 7 cm 5 mm/5 cm 4 mm/40 cm² 50 mm²

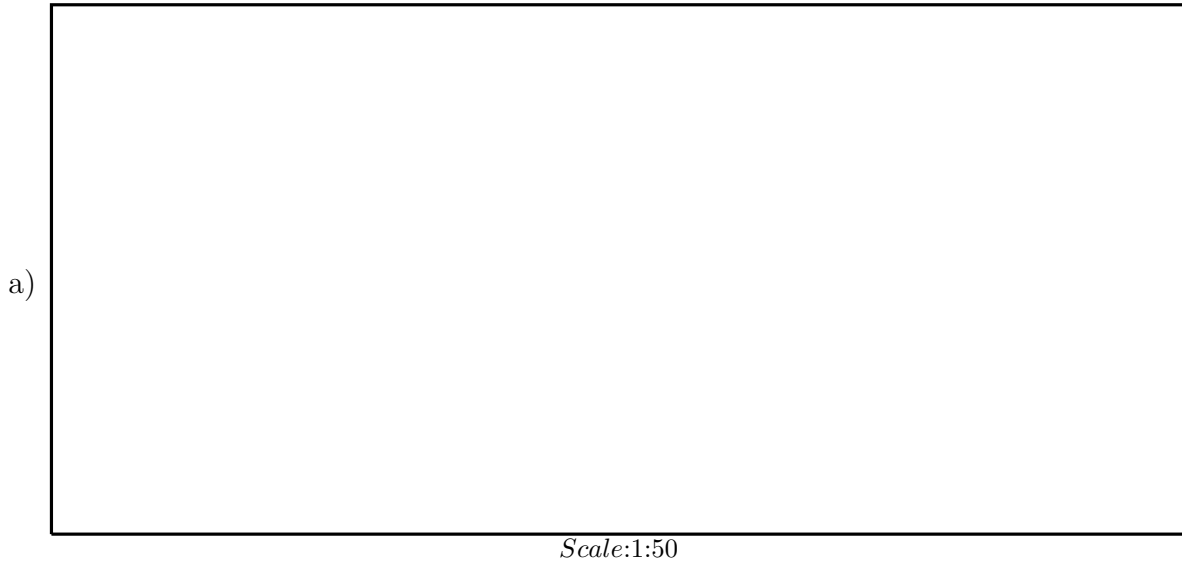
Original (length/width/area): 9 km 375 m/6 km 750 m/

2)

The rectangle shown has been reduced by the scale factor indicated. What is its area in

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9001

this drawing? What is the length, width and area of the original unscaled rectangle?



Answer:

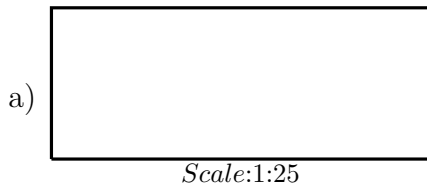
Drawing (length/width/area) : 1 dm 5 cm 2 mm/7 cm 2 mm/1 dm² 9 cm² 44 mm²

Original (length/width/area): 7 m 6 dm/3 m 6 dm/27 m² 36 dm²

3)

The rectangle shown has been reduced by the scale factor indicated. What is the length and width of the original unscaled rectangle?

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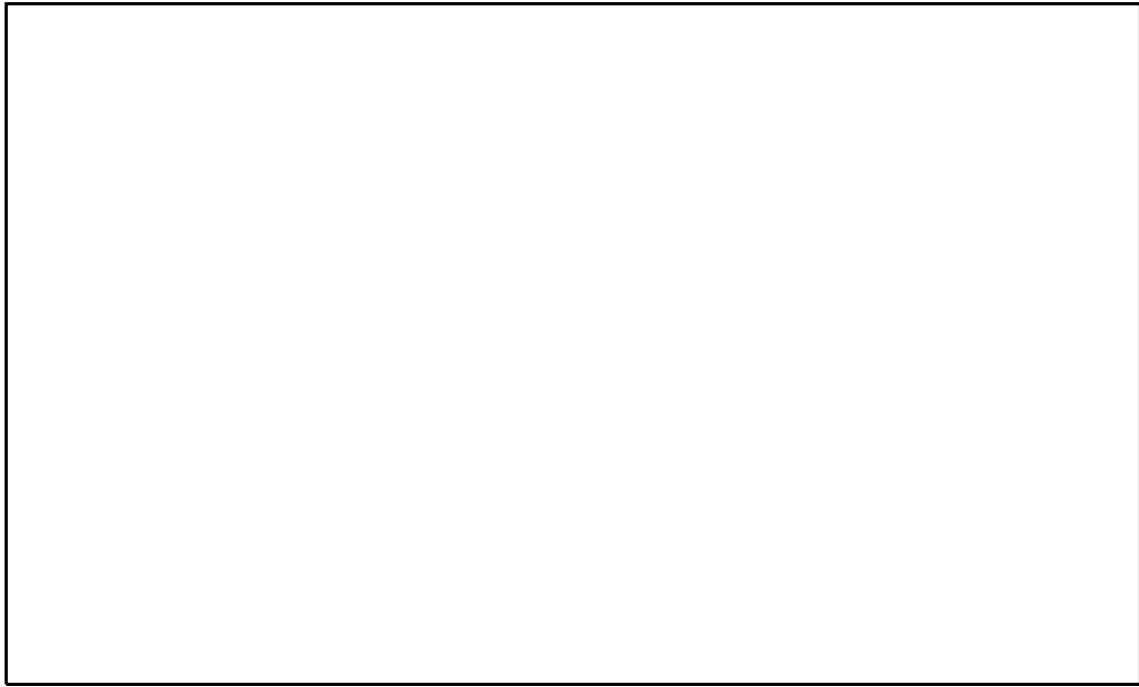


Answer:

Drawing (length/width/area) : 5 cm 2 mm/2 cm 5 mm/13 cm²

Original (length/width/area): 1 m 3 dm/6 dm 2 cm 5 mm/81 dm² 25 cm²

b)



Scale:1:5

Answer:

Drawing (length/width/area) : 1 dm 5 cm 4 mm/9 cm 1 mm/1 dm² 40 cm² 14 mm²

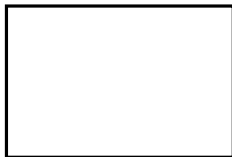
Original (length/width/area): 7 dm 7 cm/4 dm 5 cm 5 mm/35 dm² 3 cm² 50 mm²

4)

The rectangle shown has been reduced by the scale factor indicated. What is its area in this drawing? What is the length, width and area of the original unscaled rectangle?

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a)



Scale:1:100000

Answer:

Drawing (length/width/area) : 3 cm 3 mm/2 cm 2 mm/7 cm² 26 mm²

Original (length/width/area): 3 km 300 m/2 km 200 m/1505 m² 26 dm² 97 cm² 60

mm² b)



Scale:1:250000

Solutions to smp-9001-3/MUQU

Answer:

Drawing (length/width/area) : 7 cm 4 mm/5 cm 5 mm/40 cm² 70 mm²

Original (length/width/area): 18 km 500 m/13 km 750 m/1266 m² 92 dm² 71 cm² 4 mm²

Good Luck!