

{A} AREA: Trapeziums

Name:

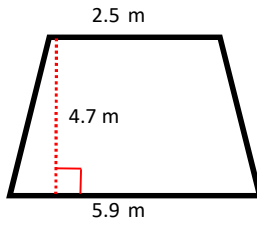
Date:

Give the area of the below trapeziums. Round any decimal answer to 1 d.p. if necessary.

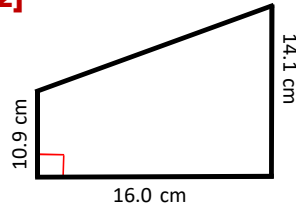
<http://www.learnersgrid.com>

Show all your working!

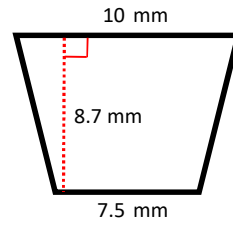
[1]



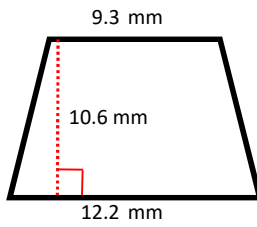
[2]



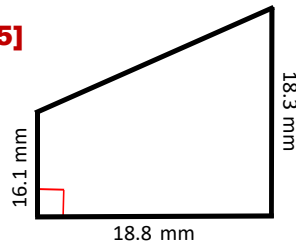
[3]



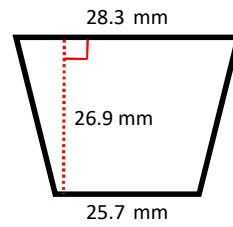
[4]



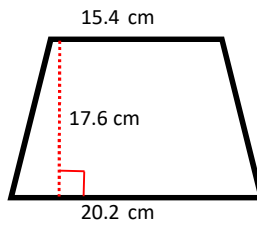
[5]



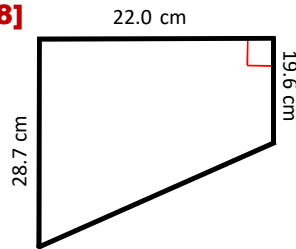
[6]



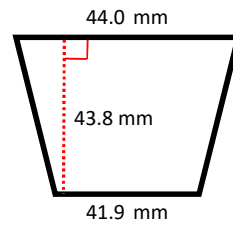
[7]



[8]



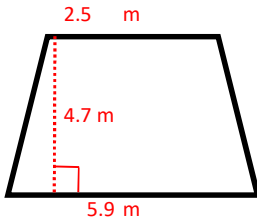
[9]



{A} AREA: Trapeziums

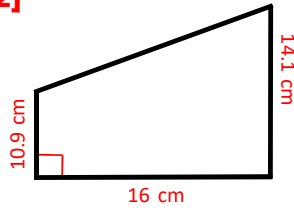
ANSWERS

[1]



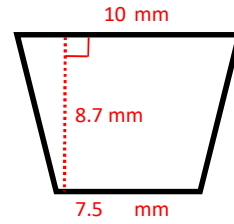
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 4.7(2.5+5.9)/2 \\ A &= 4.7(8.4)/2 \\ A &= 39.48/2 \\ A &= 19.7 \text{ m}^2 \end{aligned}$$

[2]



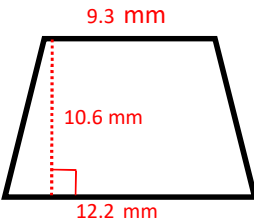
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 16(10.9+14.1)/2 \\ A &= 16(25)/2 \\ A &= 400/2 \\ A &= 200 \text{ cm}^2 \end{aligned}$$

[3]



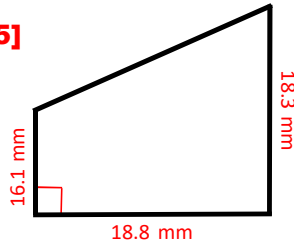
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 8.7(7.5+10)/2 \\ A &= 8.7(17.5)/2 \\ A &= 152.25/2 \\ A &= 76.1 \text{ mm}^2 \end{aligned}$$

[4]



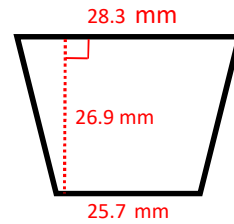
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 10.6(9.3+12.2)/2 \\ A &= 10.6(21.5)/2 \\ A &= 227.9/2 \\ A &= 114 \text{ mm}^2 \end{aligned}$$

[5]



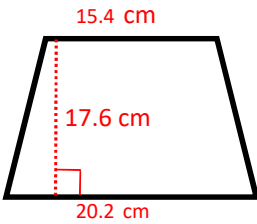
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 18.8(16.1+18.3)/2 \\ A &= 18.8(34.4)/2 \\ A &= 646.72/2 \\ A &= 323.4 \text{ mm}^2 \end{aligned}$$

[6]



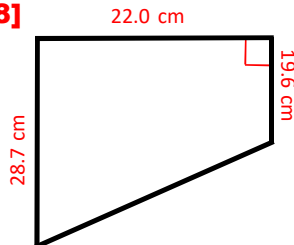
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 26.9(25.7+28.3)/2 \\ A &= 26.9(54)/2 \\ A &= 1452.6/2 \\ A &= 726.3 \text{ mm}^2 \end{aligned}$$

[7]



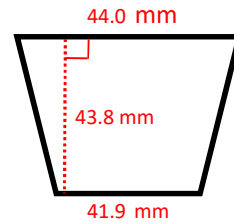
$$\begin{aligned} A &= h(a + b)/2 \\ A &= 17.6(15.4+20.2)/2 \\ A &= 17.6(35.6)/2 \\ A &= 626.56/2 \\ A &= 313.3 \text{ cm}^2 \end{aligned}$$

[8]



$$\begin{aligned} A &= h(a + b)/2 \\ A &= 22(28.7+19.6)/2 \\ A &= 22(48.3)/2 \\ A &= 1062.6/2 \\ A &= 531.3 \text{ cm}^2 \end{aligned}$$

[9]



$$\begin{aligned} A &= h(a + b)/2 \\ A &= 43.8(41.9+44)/2 \\ A &= 43.8(85.9)/2 \\ A &= 3762.42/2 \\ A &= 1881.2 \text{ mm}^2 \end{aligned}$$