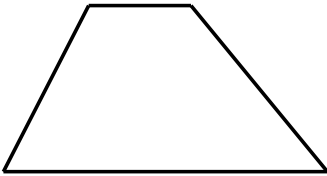


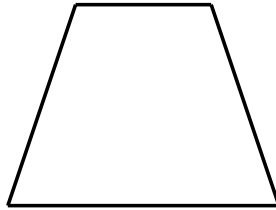
Area of a Trapezoid

**Find the area of each trapezoid. Round to the nearest tenth.**

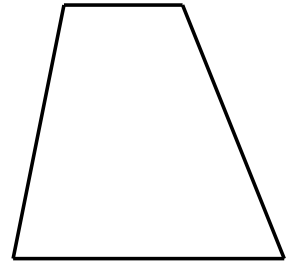
1)



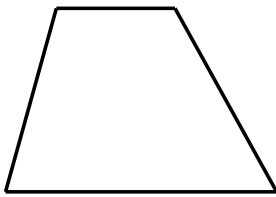
2)



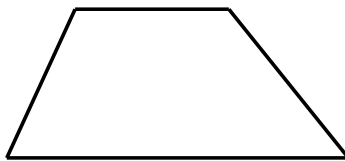
3)



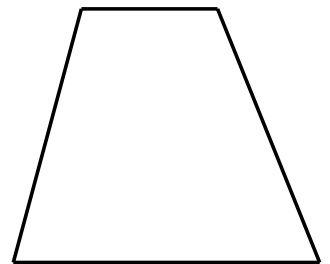
4)



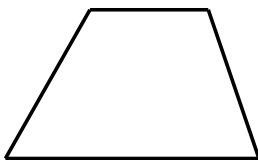
5)



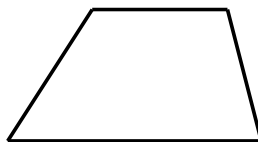
6)



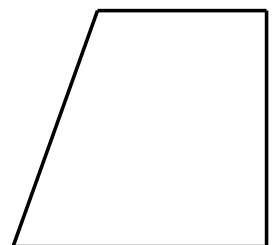
7)



8)



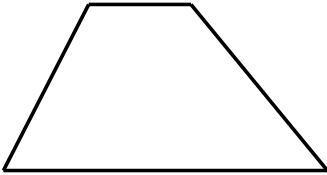
9)



Area of a Trapezoid

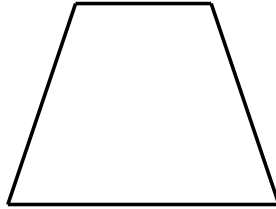
Find the area of each trapezoid. Round to the nearest tenth.

1)



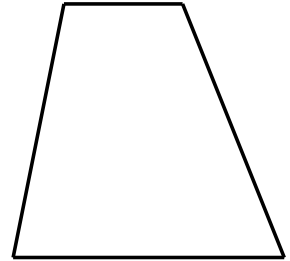
Answer: 125

2)



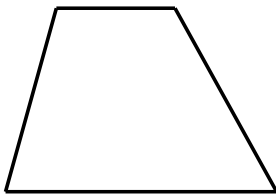
Answer: 144

3)



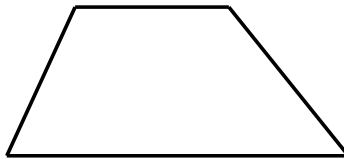
Answer: 172.5

4)



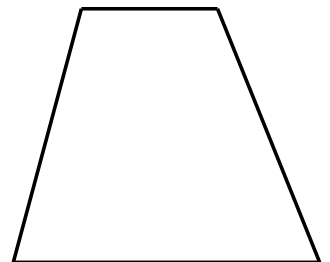
Answer: 126.5

5)



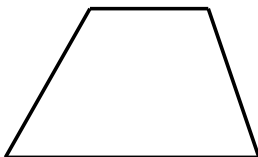
Answer: 130.5

6)



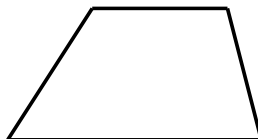
Answer: 195

7)



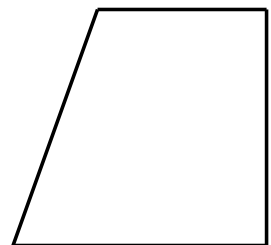
Answer: 99

8)



Answer: 92

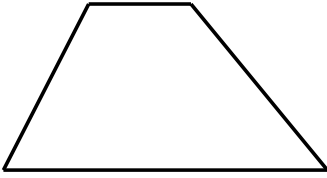
9)



Answer: 175

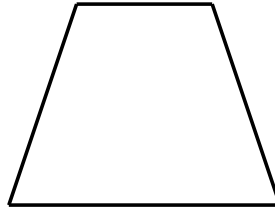
**Solution Steps**

1)



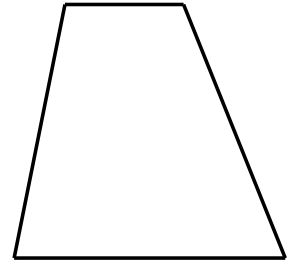
$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (6 + 19) * 10 \\ \text{Area} &= \frac{1}{2} * 25 * 10 \\ \text{Area} &= 125 \end{aligned}$$

2)



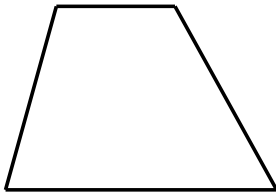
$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (8 + 16) * 12 \\ \text{Area} &= \frac{1}{2} * 24 * 12 \\ \text{Area} &= 144 \end{aligned}$$

3)



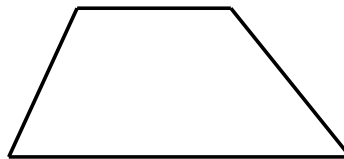
$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (7 + 16) * 15 \\ \text{Area} &= \frac{1}{2} * 23 * 15 \\ \text{Area} &= 172.5 \end{aligned}$$

4)



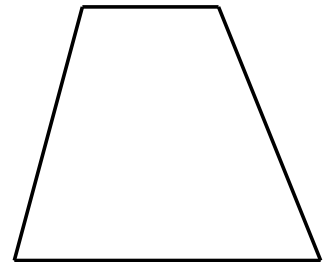
$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (7 + 16) * 11 \\ \text{Area} &= \frac{1}{2} * 23 * 11 \\ \text{Area} &= 126.5 \end{aligned}$$

5)



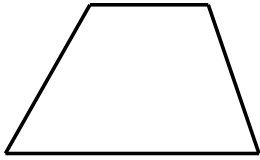
$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (9 + 20) * 9 \\ \text{Area} &= \frac{1}{2} * 29 * 9 \\ \text{Area} &= 130.5 \end{aligned}$$

6)



$$\begin{aligned} \text{Area} &= \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height} \\ \text{Area} &= \frac{1}{2} * (8 + 18) * 15 \\ \text{Area} &= \frac{1}{2} * 26 * 15 \\ \text{Area} &= 195 \end{aligned}$$

7)



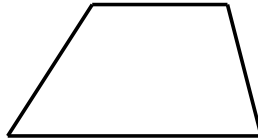
$$\text{Area} = \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height}$$

$$\text{Area} = \frac{1}{2} * (7 + 15) * 9$$

$$\text{Area} = \frac{1}{2} * 22 * 9$$

$$\text{Area} = 99$$

8)



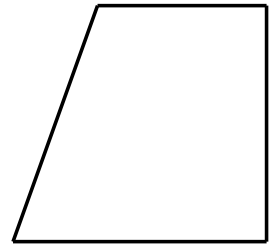
$$\text{Area} = \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height}$$

$$\text{Area} = \frac{1}{2} * (8 + 15) * 8$$

$$\text{Area} = \frac{1}{2} * 23 * 8$$

$$\text{Area} = 92$$

9)



$$\text{Area} = \frac{1}{2} * (\text{Base1} + \text{Base2}) * \text{Height}$$

$$\text{Area} = \frac{1}{2} * (10 + 15) * 14$$

$$\text{Area} = \frac{1}{2} * 25 * 14$$

$$\text{Area} = 175$$