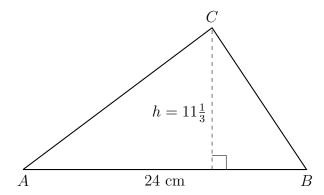
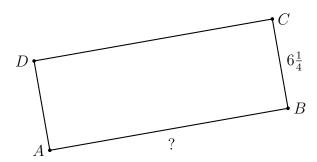
2.8 Homework: Solving for lengths

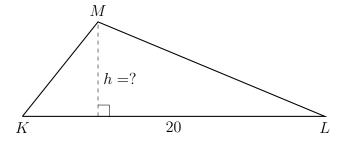
1. Find the area of $\triangle ABC$. The altitude h of the triangle is $11\frac{1}{3}$ centimeters and the base AB=24 cm.



2. Given the rectangle ABCD shown below, with $BC = 6\frac{1}{4}$. If the area of the rectangle is 100, find AB.



3. Given that the area of $\triangle KLM$ is $81\frac{1}{4}$ and the base KL=20. Find the altitude h of the triangle.



4. Given \overrightarrow{DG} as shown on the number line, with D=11 and G=26.



Points E and F trisect \overline{DG} . Find the values of E and F and mark and label them on the number line \overline{DG} .

5. Given \overline{PQR} , with $PQ = \frac{1}{2}x + 4$, QR = x + 3, and PR = 2x + 5. Find PR. Complete all the steps for full credit.