

[illegible]

The diagram shows a trapezoid  $ABCD$  with vertices  $A$  (top right),  $B$  (top left),  $C$  (bottom left), and  $D$  (bottom right). A line segment  $AM$  is drawn from vertex  $A$  to point  $M$  on the top base  $BC$ . The length of the top base  $BC$  is  $9\text{ cm}$ . The length of the right side  $AB$  is  $2\text{ cm}$ . The length of the left side  $CD$  is  $4\text{ cm}$ . Point  $M$  is located on  $BC$  such that  $BM = 3\text{ cm}$  and  $MC = 6\text{ cm}$ . The area of triangle  $ABC$  is shaded gray.