# MCAS MIXER

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**1)** Which of the following equations is TRUE?

a)  $(4+5)^2 = 4^2 + 5^2$

b)  $(4+5)^2 = 4^2 + 5$

c)  $(4+5)^2 = (4+5)(4+5)$

d)  $(4+5)^2 = 4 + 5^2$

**2)**

$$| \, 8 - 11 \, | \, - \, 3| \, 6 \, | \, =$$

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**3)** Which of the following is the same as dividing a number by four?

a) multiplying by two

b) multiplying by one-half

c) multiplying by one-quarter

d) dividing by one-quarter

**4)** The distance $d$ that an automobile travels varies directly as the time $t$ that it travels. After four hours, an automobile has traveled 232 miles. Which of the following is an Equation that relates $d$ and $t$ ?

a)  $d = t + 232$

b)  $t = 232d$

c)  $t = d - 232$

d)  $d = 58t$

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**5)** Which point on the number line below BEST represents the location of the $\sqrt{220}$ ?

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          A B        C           D
  <───────┼──┼─●──┼──┼──●──┼──────┼──────>
          0  5    10    15    20    25
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