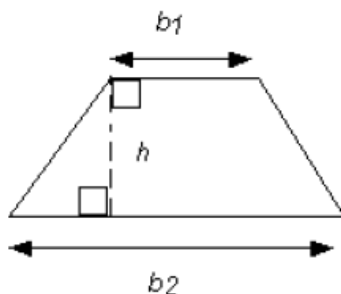


2016 Mathematics Standards of Learning  
Algebra Readiness Formative Assessment

7.11

1. What is the area of the trapezoid shown below if  $b_1 = 14$ ,  $b_2 = 10$ , and  $h = 4$ ?

$$\text{Area} = \frac{1}{2}h(b_1 + b_2)$$



2. What is the value of  $10y + 2|3x + 2|$  if  $x = -2$  and  $y = 3$ ?
3. What is the value of  $x^2 + yz$  if  $x = 4$ ,  $y = -3$ , and  $z = 2$ ?
- A. 2
  - B. 10
  - C. 22
  - D. 26
4. What is the value of  $x^2 + 3x + 2$  if  $x = 15$ ?
- A. 62
  - B. 77
  - C. 272
  - D. 276
5. The outside temperature is 10 degrees Celsius. Using the formula  $F = 1.8C + 32$ , what is that temperature in degrees Fahrenheit?
- A. 17.8 degrees Fahrenheit
  - B. 33.8 degrees Fahrenheit
  - C. 50.0 degrees Fahrenheit
  - D. 57.6 degrees Fahrenheit