

# Algebra I EOC Practice #24

SPI 3102.4.4: Convert rates and measurements.

1. A 2-ounce package of ham costs \$1.29. Which is closest to the cost per pound?  
A. \$0.65  
B. \$2.58  
C. \$5.16  
D. \$10.32
2. Tyler can run a mile in  $5\frac{1}{2}$  minutes. Which is closest to this rate in feet per minute?  
A. 5,280  
B. 2,640  
C. 1,320  
D. 960
3. Laura can pressure wash her driveway at an average rate of 15 square feet per minute. Which is closest to this rate in square yards per second?  
A. 0.35  
B. 0.24  
C. 0.03  
D. 0.01
4. Which number correctly completes this equation?  
 $6 \text{ square feet} = \underline{\hspace{2cm}} \text{ square inches}$   
A. 72  
B. 144  
C. 864  
D. 1,728

5. Which number correctly completes this equation?  
 $12 \text{ square yards} = \underline{\hspace{2cm}} \text{ square feet}$   
A. 108  
B. 144  
C. 12  
D. 36
6. One type of decorative ribbon regularly costs \$3.59 per yard. When the ribbon is on sale, it costs \$2.19 per yard. Which is the closest to the difference in the cost per inch for the ribbon when it on sale compared to its regular price?  
A. 1.9 cents per inch  
B. 3.8 cents per inch  
C. 11.6 cents per inch  
D. 16.06 cents per inch
7. Which number correctly completes this equation?  
 $6 \text{ square yards} = \underline{\hspace{2cm}} \text{ square inches}$   
A. 7,776  
B. 1,728  
C. 648  
D. 216