STAAR Practice Test - 8th Grade

1. An employee put $20,000.00 in a retirement account that offers 6% interest compounded annually. The employee makes no additional deposits or withdrawals. What interest will the employee earn at the end of 5 years?

2. Which list shows these numbers in order from least to greatest?
   A. 1.84, ∏∕√3, 13/7, 2
   B. ∏∕√3, 1.84, 13/7, 2
   C. 1.84, 13/7, 2, ∏∕√3
   D. ∏∕√3, 1.84, 13/7, 2

3. A square with a perimeter of 12 units is graphed on a coordinate grid. The square is dilated by a scale factor of 1.2 with the origin as the center of dilation. If (x,y) represents the location of any point on the original square, which ordered pair represents the coordinates of the corresponding point on the resulting square?
   A. (1.2x, 1.2y)
   B. (x/1.2, y/1.2)
   C. (x+ 12, y+ 12)
   D. (x+ 1.2, y+ 1.2)

4. The dimensions of a rectangle are 7 inches and 12 inches. Veronica folded the piece of paper along its diagonal. What is the length of the diagonal?

5. The total cost of attending a private university is $35,600 for the first year. A student's grandparents will pay 1/4 of this cost. An athletic scholarship will pay another $10,000. Which amount will the student need to pay monthly to cover the remaining tuition of the 10 months of freshman year?

STAAR Practice Test Answer Key - 8th Grade

1. An employee put $20,000.00 in a retirement account that offers 6% interest compounded annually. The employee makes no additional deposits or withdrawals. What interest will the employee earn at the end of 5 years?

   $6,764.51

2. Which list shows these numbers in order from least to greatest?
   A. 1.84, ∏∕√3, 13/7, 2
   B. ∏∕√3, 1.84, 13/7, 2
   C. 1.84, 13/7, 2, ∏∕√3
   D. ∏∕√3, 1.84, 13/7, 2

3. A square with a perimeter of 12 units is graphed on a coordinate grid. The square is dilated by a scale factor of 1.2 with the origin as the center of dilation. If (x,y) represents the location of any point on the original square, which ordered pair represents the coordinates of the corresponding point on the resulting square?
   A. (1.2x, 1.2y)
   B. (x/1.2, y/1.2)
   C. (x+ 12, y+ 12)
   D. (x+ 1.2, y+ 1.2)

4. The dimensions of a rectangle are 7 inches and 12 inches. Veronica folded the piece of paper along its diagonal. What is the length of the diagonal?

   13.89 in.

5. The total cost of attending a private university is $35,600 for the first year. A student's grandparents will pay 1/4 of this cost. An athletic scholarship will pay another $10,000. Which amount will the student need to pay monthly to cover the remaining tuition of the 10 months of freshman year?

   $1670 / Month

   Each question on this practice exam is meant to test your child's knowledge on a different segment of the STAAR Math test. We encourage you to review the questions missed and dive further into that concept. **We would love to help your kids prepare for the upcoming exam! Contact us for a free in-depth assessment to get started.**