8" GRADE MATHEMATICS TEST PREP QUESTION #1 Date

Which number is equivalent to $\frac{3^4}{3^7}$?

34-2 = 32 >9

729

QUESTION #2

Figure Q was the result of a sequence of transformations on figure P, both shown

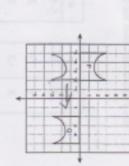
Which sequence of transformations could take figure P to figure Q?

A) reflection over the x-axis and translation 7 units right

reflection over the y-axis and translation 3 units down

translation 1 unit right and 180° rotation about the origin

translation 4 units right and 180° rotation about the origin



QUESTION #3

Determine the product.

800.5 x (2 x 10⁶)

1.7×10²

1.601 × 10

D) 1.601×10 1.7 × 109

> 2) 1601 * 106+3 1)800,5 * 2 = 1601

3)1.601 × 109

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QUESTION #4

from the Sun. By what distance is one planet closer to the Sun than the other planet? At a given time, Saturn was 9.1×10^6 miles from the Sun and Earth was 9.3×10^7 miles

A 2×101 2×1015 9.1×108

-9.3 * 107

D) 8.17×10⁵ 8,17×10

>_9.3×107 * 071

QUESTION #5

The combined volume of all the tanks at an aquarium is 1.25×10^6 gallons. The aquarium plans to install a new dolphin tank with a volume of 250,000 gallons. What is installed? will be the total volume of all of the tanks at the aquarium after the new dolphin tank

2.5 105+ 12.5 * 105 2.5 * 105 + 1.25 * 106

A 15×10⁵

3.75 × 10

C 15×106

D 3.75 × 10⁶

5 * 105+ 1.5 * 100

Rectangle R undergoes a dilation with scale factor 0.5 and then a reflection over the is true? y-axis. The resulting image is Rectangle S. Which statement about Rectangles R and S Dilation ALWAYS

They are congruent and similar.

- (B) A They are similar but not congruent
- They are congruent but not similar.
- They are neither congruent nor similar.

creates similar figures.