Mathematics Weekly Review

Quiz: D20

Directions: Choose the correct multiple-choice answer. Show your work and any sketches you feel would be helpful in working the problems.

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_____ 1) Calculate the problem and choose the correct answer in scientific notation. (N – I)

$$(6.28 \times 10^{-3})(2.05 \times 10^{4})$$

A. 12.874×10^{1}

B. 1.2874×10^{2}

C. 1.2874×10^{-7}

D. 1.2874×10^{-1}

_____ 2) A bag contains 20 candy coated chocolate pieces: 3 red, 4 blue, 6 green and 7 yellow. One piece of candy is randomly selected from the bag. A second piece is then randomly selected after the first piece is replaced. What is the probability that both pieces selected are blue? (D – J)

A. $\dfrac{1}{10}$ 　　　　 B. $\dfrac{3}{100}$ 　　　　 C. $\dfrac{3}{95}$ 　　　　 D. $\dfrac{1}{25}$

_____ 3) At 1 pm the peak of the post office roof casts an 8-foot shadow. At the same time, a 7-foot sign casts a 2-foot shadow. How high is the peak of the roof? (M – D)

A. $2\dfrac{1}{2}$ feet 　　　 B. 28 feet 　　　 C. 14 feet 　　　 D. $7\dfrac{1}{2}$ feet

_____ 4) If Point C = (3, 2) and D = (–1, 4), what is the slope of $\overline{CD}$? (P – J)

A. $-\dfrac{1}{2}$

B. -2
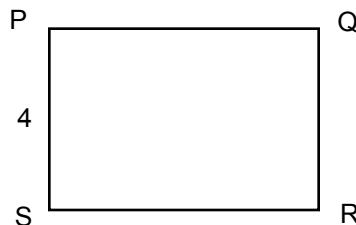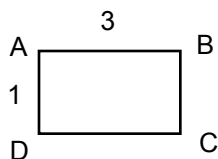
C. $\dfrac{1}{2}$

D. 2

NAME: _____ Date: _____ Score: _____
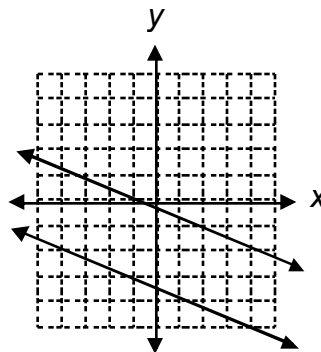
Mathematics Weekly Review

Quiz: D20 (continued)

_____ 5) Rectangle ABCD is similar to rectangle PQRS. What is the perimeter of rectangle PQRS?

(G – B)

A. 12
B. 16
C. 24
D. 32

_____ 6) From the graph of the linear system, choose the most accurate description. (P – H)

A. intersecting lines
B. parallel lines
C. same line
D. lines are in different planes

_____ 7) A computer is on sale for 15% off. Which statement represents the problem situation?

(P – D)

A. The sale price is 85% of the original price.
B. The sale price is 115% of the original price.
C. The sale price is 15% of the original price.
D. The sale price is 65% of the original price.

8) The length and width of Rectangle A is doubled to form Rectangle B. Sarah concluded that the area of Rectangle B is twice the area of Rectangle A.

Is she correct? _____   Justify your answer. (G – H)