CISD Grade 6 Math Unit 05

GO ON

1 This table shows the different sizes of pegboard available at a hardware store.

Pegboard	**Length** (in feet)	**Width** (in feet)
Style 1	2	3
Style 2	4	6
Style 3	6	8
Style 4	10	12

Shannon decided to choose the Style 3 pegboard. Which equation can be used to find P, the perimeter of Shannon's pegboard?

A $6 \times 8 = P$

B $(6 \times 8) \times 2 = P$

C $6^2 + 8^2 = P$

D $(6 \times 2) + (8 \times 2) = P$

2 Karen has a holiday job wrapping gifts at a department store. She cuts the rectangular wrapping paper from a roll. The table below shows how the area, A, of a piece of wrapping paper changes depending on the length, l, of the paper cut from the roll.

Length *(l)*	**Width** *(w)*	**Area** *(A)*
3		60
6		120
9		180
12		240

Complete the table to show the width of the wrapping paper. Use the table to write an equation that can be used to find w, the width of the rectangular wrapping paper, when the length of the wrapping paper is 14.

GO ON

3 The table below shows the relationship between quarts and gallons.

Quarts *q*	**Gallons** *g*
5	$1\frac{1}{4}$
6	$1\frac{1}{2}$
8	2
9	$2\frac{1}{4}$

Which of the following equations BEST represents the relationship between quarts, *q,* and gallons, *g*?

A $g = q - 3\frac{1}{4}$

B $g = q - 4\frac{1}{2}$

C $g = q \div 4$

D $g = q \times 4$

4 Laura has a 2-liter bottle of juice. Which equation could be used to convert liters, *L,* to an equivalent amount of milliliters, *ml*?

F $ml = L \div 1000$

G $ml = 1000\ L$

H $ml = L \div 100$

J $ml = 100\ L$

GO ON

5 This table shows the mass of four dogs in kilograms and grams.

Number of Dogs	**Kilograms** *k*	**Grams** *g*
1	25.8	25,800
2	21.4	21,400
3	9.8	9,800
4	11.7	11,700

If a fifth dog weighs 14.3 kilograms, which equation could be used to find its mass, *g*, in grams?

A $g = 14.3 \cdot 1{,}000$

B $g = 14.3 + 1{,}000$

C $g = 14.3 \div 100$

D $g = 14.3 - 1{,}000$

6 This table shows the amount of pumpkin filling, in ounces and pounds, in some pumpkin pies.

Ounces *o*	**Pounds** *p*
24	$1\frac{1}{2}$
28	$1\frac{3}{4}$
40	$2\frac{1}{2}$

If a pie has 36 ounces of pumpkin filling in it, which equation could be used to find the amount of pumpkin, in pounds, *p*?

F $p = 36 - 23\frac{1}{2}$

G $p = 36 + 16$

H $p = 36(16)$

J $p = 36 \div 16$

GO ON

7 Which table represents the relationship between cups and pints?

A

Cup(s)	Pint(s)
1	$\frac{1}{2}$
2	1
3	$1\frac{1}{2}$
4	2

B

Cup(s)	Pint(s)
$\frac{1}{2}$	1
1	2
$1\frac{1}{2}$	3
2	4

C

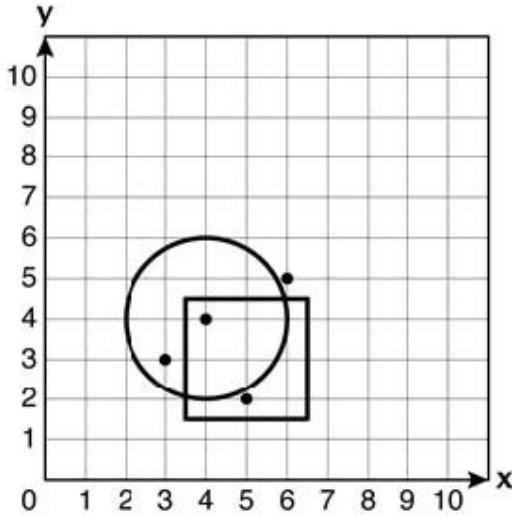
Cup(s)	Pint(s)
1	2
2	4
3	6
4	8

D

Cup(s)	Pint(s)
2	$\frac{1}{2}$
4	1
6	$1\frac{1}{2}$
8	2

GO ON

8 Which coordinate pair is inside both the square and the circle?



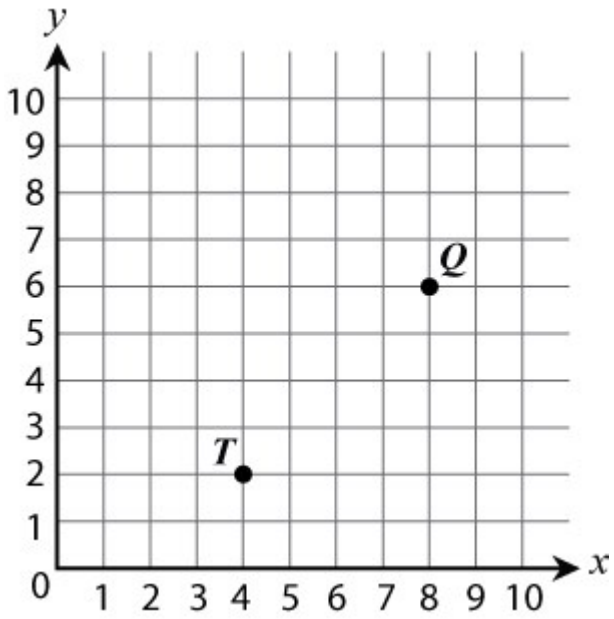
F (6, 5)

G (4, 4)

H (5, 2)

J (3, 3)

9 What point would represent half-way between points T and Q?



A (6, 5)

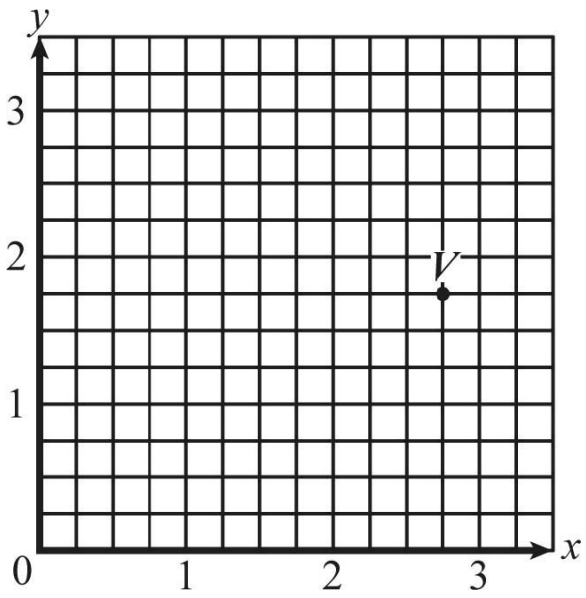
B (5, 6)

C (4, 6)

D (6, 4)

GO ON

10 Which coordinate pair BEST represents Point *V*?



F (1.75, 2.75)

G (2.3, 1.3)

H (2.75, 1.75)

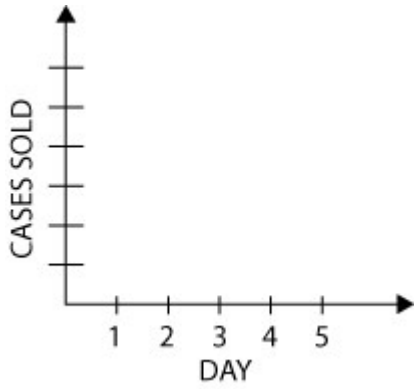
J (1.3, 2.3)

GO ON

11 Imagine that a market had 300 cases of a popular snack. The first day 6 cases were sold. The second day 14 cases were sold. Each day 8 more cases were sold than the day before.

A. Create a table to show the number of cases sold for the first FIVE days.

B. Graph the information from your table.



C. Is this relationship proportional? Why or why not?

BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON YOUR ANSWER DOCUMENT

STOP