1. The drill on an oil derrick went -30 feet in 6 hours. Based on this information, complete the table and graph the relationship.

| Time <br> (hours), $x$ | Drill Amount <br> (feet), $y$ |
| :---: | :---: |
| 0 |  |
| 1 |  |
| 6 | -30 |
| 9 |  |

What is the unit rate, or feet drilled in a single hour? $\qquad$


If the points are co , rected, wh is the siope of the line? $\qquad$
TEKS 8.4B
3. Architect Garza des a pool for the Kim family. If he must convert the measurements to customary units to purchase building materials for the pool, what will be the measurements of the pool? (1 meter $\approx 1.093$ yards)


Length: $\qquad$

Width: $\qquad$
2. Warren had a collection of 40 signed baseballs. He gave away 5 of these baseballs per month until all his signed baseballs were gone. Create a graph to represent this situation.

4. Chef Leondrae makes and sells bags of candy. To produce a bag of candy, it costs Leondrae $\$ 0.04$ for each piece of candy in the bag, and $\$ 0.36$ for the bag itself. Write an equation to show the relationship between the total cost of production, $p$, and the number of candy pieces in a bag, $c$. The equation should be written in slope-intercept form.

Equation: $\qquad$

TEKS 8.5I

1．Mia sells flowers in her shop．Each flower sells for $\$ 1.50$ ，and Mia charges $\$ 5$ for the glass vase to hold each arrangement．Julio paid \＄41 for a floral arrangement．Using the equation $1.5 f+5=41$ ，which arrangement shows the number of flowers，$f$ ，in Julio＇s arrangement？

| Arrangement A | 1 dozen |
| :---: | :---: |
| Arrangement B | $11 / 2$ dozen |
| Arrangement C | 2 dozen |
| Arrangement D | $21 / 2$ dozen |
| Arrangement E | 3 dozen |



Solution： $\qquad$
TEKS 7.11
3．Two families went to a water park last Saturday．
－The Garcia family bought 8 ハーム d received a $\$ 100$ discnunt．
－The Lopez family bo gir tickei and received a $\$ 55$ discol it．
－Both fam res spent th same total amount＇ m 万， t t kets．
－The price ot each tic et was the same．

What was the cost of each ticket？ $\qquad$

2．Rectangle $A B C D$ is shown with the dimensions given in units．


The length of $\overline{A B}$ is less than the length of $\overline{A D}$ ． Write an inequalit to represent this situation．

Inequality： $\qquad$ TEKS 8．8A
4．T jo－thir，of the seventh－grade students had eir picture taken for the school yearbook．If 1．＇students had their pictures taken，how many students，$s$ ，are in the seventh grade？ Write an equation，and then solve for the number of students in $7^{\text {th }}$ grade．

| 124 |
| :---: |

$\square$

Equation： $\qquad$

Solution： $\qquad$

1. A grain silo, in the shape of a cylinder, stands 60 feet tall and has a diameter of 40 feet. If the silo is one-half full, what is the volume of grain in the silo to the nearest tenth of a cubic foot?


Volume of Grain in Silo: $\qquad$
3. The dimensions of a rectangular, "Is, given in the net shown. Wrot is the $t$ al surface area of the rectangular pris lir ruare, hes?


Total Surface Area: $\qquad$
TEKS 7.9D
2. Determine the volume of the pyramid. Round the answer to the nearest tenth of a cubic centimeter.

v ame: $\qquad$
TEKS 7.9A
4. The table shows the dimensions of three cylinders.

| Cylinders |  |  |
| :---: | :---: | :---: |
| Cylinder | Radius (in.) | Height (in.) |
| $L$ | 8 | 4 |
| $M$ | 9 | 12 |
| $N$ | 6 | 18 |

Which two cylinders have the same lateral surface area in square inches?

Solution: $\qquad$

TEKS 8.7B

1. The double box plot summarizes the results of a random survey of 20 females and 20 males. Each person stated the number of hours spent online last Saturday.


Based on the box plot, mark each statement as true or false.

3. The game warden $r$ allued the " nber or deer in random plots ors stions $\rightarrow$ lo I ranch.

| 6 | 4 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 1 |  |  | 4 | 5 |
| 9 | 1 | 4 |  | 5 | 2 |
|  | 2 |  | 3 |  | 2 |
| 7 |  | 8 |  | 5 |  |
|  | 5 | 1 | 4 | 1 |  |

Based on the game warden's count, what is the average number of deer that the rancher can expect to find in any one section of his ranch?

Number of deer per plot: $\qquad$

TEKS 8.11C
2. The list shows the weight in pounds of 6 newborn babies.

$$
9,4.8,8.4,7.5,6.8,8.4
$$

What is the mean absolute deviation of these numbers?

Meá Absolute Deviation: $\qquad$

TEKS 8.11B
4. A pollster conducted a random survey of 100 voters regarding their choice of governor. The table shows the results of the survey.

Election Poll

| Candidate | Number of <br> Votes |
| :---: | :---: |
| A | 35 |
| B | 50 |
| C | 15 |

Based on the poll, which inference is valid?

|  | Yes | No |
| :--- | :--- | :--- |
| More than $50 \%$ of those <br> polled chose Candidate B. |  |  |
| Less than $20 \%$ of those <br> polled chose Candidate C. |  |  |

TEKS 7.12B

Math GPS, LLC

1. The table shows Nathan's net worth statement.

| Net Worth Statement |  |
| :--- | :---: |
| Item | Value |
| Bank accounts | $\$ 23,570$ |
| Motorcycle <br> (current value) | $?$ |
| Student Loans | $-1,200$ |
| Credit Card Debt | $-\$ 590$ |
| Investments | $\$ 2,500$ |

Nathan's net worth is currently $\$ 35,780$. Based on the information in the table, what is the current value of Nathan's motorcycle?

Value of Motorcycle: $\qquad$ TEKS 7.13C

Data Analysis
2. A monthly budget for the Smith family is shown.

Smith Family Budget

| Item | Amount |
| :--- | :---: |
| Apartment Rent | $\$ 1,100$ |
| \begin{tabular}{\|c|}
\hline
\end{tabular} |  |
|  |  |

Write an equation that can be used to find $b$, the minimum amount of money the family must earn annually to meet this budget.

Equation: $\qquad$
TEKS 7.13D
3. Cisco wants to open a savings account with a depo $\ddagger \$ 3$, 00 . Cisco will not make any additional deposits or withdrawals after he opens eaccc nt. sb= noffers two different savings accounts.

- Account $X$ pays $3.5 \%$ simple annual in ir $t$.
- Account $Y$ pays $3.6 \%$ interest in in fed nually.

Which account will result in C earnin more interest money? $\qquad$
How much more interest mone will -n earn? $\qquad$
TEKS 8.12D
4. Farik opened al investr ta ount. At the end of each year, the bank paid 5.5\% annual simple interest on the money in Farik account. The table shows the activity over three years.

| Farik's Investment Account Activity |  |
| :--- | :---: |
| Year Beginning <br> Balance for <br> Year January <br> $1^{\text {st }}$ <br> Deposit New <br> Balance Interest <br> Rate Interest <br> Earned Ending <br> Balance <br> for Year <br> 1 $\$ 0.00$ $\$ 1,000.00$ $\$ 1,000.00$ $5.5 \%$ $\$ 55.00$ $\$ 1,055.00$ <br> 2 $\$ 1,055.00$ $\$ 1,000.00$ $\$ 2,055.00$ $5.5 \%$ $\$ 113.03$ $\$ 2,168.03$ <br> 3 $\$ 2,168.03$ $\$ 1,000.00$ $\$ 3,168.03$ $5.5 \%$ $\$ 174.24$ $\$ 3,342.27$ |  |

List two reasons the balance in this account has grown.
-

- $\qquad$
TEKS 8.12C
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