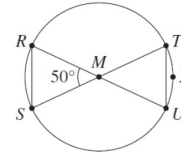**25.** The sides of a square are 3 cm long. One vertex of the square is at (3,0) on a square coordinate grid marked in centimeter units. Which of the following points could also be a vertex of the square?

A. ( 6, 0)

B. $\left( 4\frac{1}{2}, 1\frac{1}{2} \right)$

C. ( 1, 2)

D. ( 0, −2)

E. (−3, 0)

**26.** In the circle shown below, $M$ is the center and lies on $\overline{RU}$ and $\overline{ST}$. Which of the following statements is NOT true?



A. $\angle TUM$ measures 65°

B. $\overline{TU}$ is parallel to $\overline{RS}$

C. $\widehat{TXU}$ measures 50°

D. $\overline{RM} \cong \overline{TM}$

E. $\overline{RS} \cong \overline{SM}$

**27.** John Jones has decided to go into the business of producing and selling boats. In order to begin this venture, he must invest $10 million in a boat production plant. The cost to produce each boat will be $7,000, and the selling price will be $20,000. Accounting for the cost of the production plant, which of the following expressions represents the profit, in dollars, that John will realize when $x$ boats are produced and sold?

A.    13,000x − 10,000,000
B.    27,000x − 10,000,000
C. 9,973,000x
D.    20,000x
E.    13,000x

**28.** If $2x^2 + 6x = 36$, what are the possible values of $x$ ?

A. −12 and  3
B.  −6 and  3
C.  −3 and  6
D.  −3 and 12
E.   12 and 15

**29.** As a class experiment, a cart was rolled at a constant rate along a straight line. Shawn recorded in the chart below the cart's distance ($x$), in feet, from a reference point at the start of the experiment and for each of 5 times ($t$), in seconds.

| $t$ | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| $x$ | 10 | 14 | 18 | 22 | 26 | 30 |

Which of the following equations represents this data?

A. $x = t + 10$
B. $x = 4t + 6$
C. $x = 4t + 10$
D. $x = 10t + 4$
E. $x = 14t$

**30.** To increase the mean of 4 numbers by 2, by how much would the sum of the 4 numbers have to increase?

F.  2
G.  4
H.  6
J.  8
K.  16

Bellwork Answers:

25.  A
26.  K
27.  A
28.  G
29.  C
30.  J