# Math ONE – Released Items

1. In the first week, a child puts $1.00 into a piggy bank. In the second week, he puts $1.25 in the bank. In the third week, he puts $1.50 in the bank, and so on. How much money does he put in the bank on the 25th week?
   a. $ 6.25
   b. $7.00
   c. $93.00
   d. $100.00

2. **Indicate if the following statements are true or false.** The inequality $-2(x + 10) \geq 75$ says the same thing as $-2x - 20 \geq 75$. I can multiply by -2 on the left side without reversing the inequality symbol.

   a. True
   b. False

3. Suppose you drop a tennis ball from a height of 9 feet. After the ball hits the floor, it rebounds to 90% of its previous height. How high will the ball rebound after its third bounce? Round to the nearest tenth.

   a. 1.1 feet
   b. 5.9 feet
   c. 6.6 feet
   d. 7.3 feet

4. Ralph was on his way from home to work when he remembered that he left his briefcase at home. He drove back home and then drove to work. Which of the following graphs could represent his distance from home as a function of time?


a.

b.

c.

d.
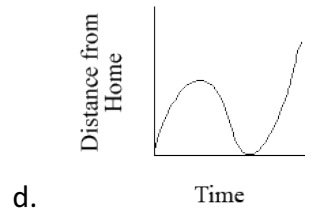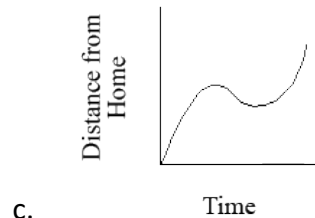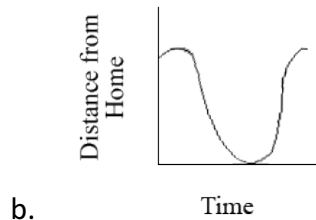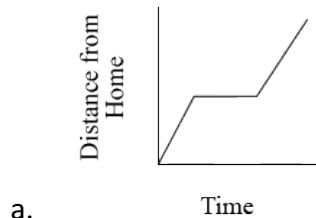
5. Pentagon *ABCDE* is shown below on a coordinate grid. The coordinates of *A, B, C, D,* and *E* all have integer values.
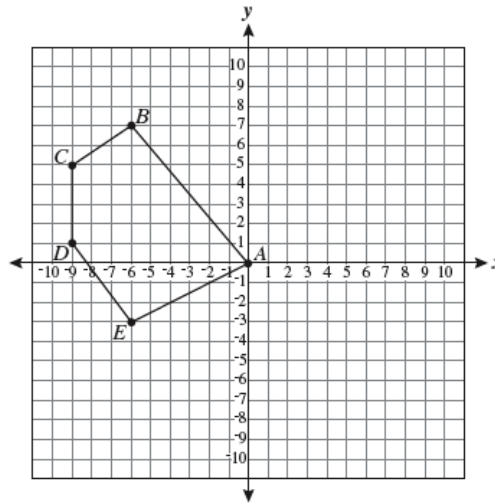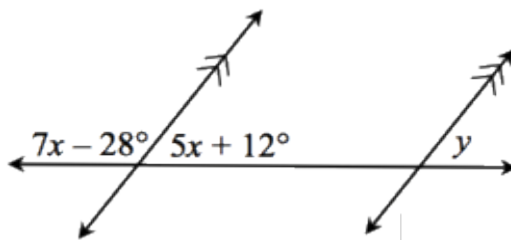

If pentagon *ABCDE* is rotated 90^0 clockwise about point A to create pentagon *A'B'C'D'E'*, what will be the *x*-coordinate of *E'*?

    a. 3   b. 6   c. -3   d. -6

6. The stem-and-leaf plot below gives the height, in inches, of evergreens in a nursery. What percent of the evergreens are over 50 inches tall?

```
3 | 7 8
4 | 3 4 5  5 6
5 | 0 1 2 3 3 3 3 7 7
6 | 0 2 4 4
```
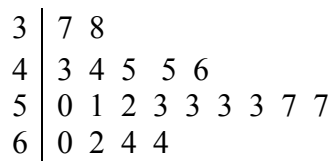
3 | 8 = 38 inches

    a. 50%   b. 55%   c. 60%   d. 65%

7. What is the value of y?

$7x - 28°$ $5x + 12°$ y

    a. 80.33   b. 93.67   c. 96.37   d. 160.57