

SPIRAL REVIEWS

Day 1



1. If $10 \bullet 4 \bullet Z = 10$, then what is Z?
 - A. $\frac{1}{4}$
 - B. 4
 - C. 25
 - D. 40
2. Simplify. $5 - [3 + (8 - 12)]$
 - A. 2
 - B. 4
 - C. 6
 - D. 12
3. If $x = -4$, then what is $(x + 2) (x - 2)$?
 - A. -20
 - B. -12
 - C. 4
 - D. 12
4. If $0.25 + 0.50 + 2 + 0.25 + x = 6$, then what is "x"?
 - A. 3
 - B. 3.5
 - C. 8.5
 - D. 9
5. Three persons line up at a ticket window. In how many different orders can they arrange themselves in line?
 - A. 2
 - B. 6
 - C. 9
 - D. 27

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Day 2

Show all steps. Use the grids below to record each answer.

1. Simplify. $\frac{6(10 - 4) - 6(8 - 7)}{10}$

2. What is the value of $\frac{x-1}{x+y} + \frac{x-y}{y+1}$ when x is 5 and y is 3?

3. A sack contains 100 pounds of grass seed which is to be separated into packages containing 8 ounces each. How many such packages can be made?

4. The scale of a map is 4 inches = 24 miles. What is the area, in square miles, of a plot represented on this map by a square whose side is 2 inches?

5. Between 1:00 p.m. and 3:00 p.m., a parts store waited on customers numbered 100 through 200. How many customers were waited on during the two hour period?

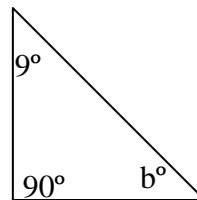
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Day 3

1. A long jumper has jumps of 20 feet, 22 feet and 24 feet. What is the average (arithmetic mean) of these jumps?
 - A. 20
 - B. 22
 - C. 24
 - D. 33
2. A stick is lying on a number line. One of its ends is at coordinate -6 and the other is at coordinate 5 . What is the length of the stick?
 - A. -1
 - B. 1
 - C. 10
 - D. 11
3. If $3x^2 - 6 = y$ and $x = 2$, then what is y^2 ?
 - A. 0
 - B. $\frac{8}{3}$
 - C. 36
 - D. 900

4. In the triangle at the right, then what is $9 + b$ equal to?

- A. 81
- B. 90
- C. 261
- D. 270



5. If the rectangle at the right has perimeter 20 and length 8, what is the area?

- A. 2
- B. 16
- C. 96
- D. 160



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Day 4

Show all steps.

1.
 - a. Michael, Mary, Joe and Greg are lining up at the classroom door. In how many different orders can they line up? Make a table or organized list to show the possible outcomes.

 - b. How many possible outcomes did you find?

 - c. What is the probability that both Michael and Mary will be either 1st or 2nd? Use what you know about probability to explain how you determined your answer. Use math words, numbers and/or symbols in your explanation.

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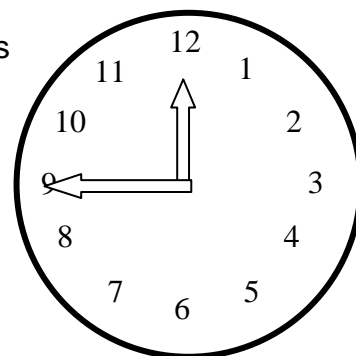
Day 5

1. Simplify. $90 + 6 + \frac{1}{2} - \frac{1}{3}$

- A. $96\frac{4}{5}$
- B. $96\frac{1}{5}$
- C. 96.5
- D. 96.17

2. In the figure at the right, what is the degree measure of the smaller angle formed by the hour and minute hands on the clock?

- A. 30°
- B. 60°
- C. 80°
- D. 90°



3. In his clothes drawer Lewis has 15 garments, all of which are socks or underwear. If 40 percent of the garments are socks, how many garments are underwear?
- A. Nine
 - B. Six
 - C. Five
 - D. Three
4. Three cats weigh 2, 4, and 6 pounds, respectively. The weight of the heaviest cat is how much more than the average (arithmetic mean) weight of the three cats?
- A. 1 lb.
 - B. 2 lbs.
 - C. 2.5 lbs.
 - D. 4 lbs.
5. A student received grades of 66, 75, 86, 91, 94 and 94 percent. What is the average (arithmetic mean) of these scores?
- A. 80
 - B. 84.3
 - C. 88.5
 - D. 94