

Name: _____ Teacher: _____ Block: _____

**Titan Learning Center
Mathematics ACT Prep
Set B-Week 1**

Solve each problem, circling the correct answers. Remember that figures are not necessarily drawn to scale.

1. The weekly fee for staying at the Pleasant Lake Campground is \$20 per vehicle and \$10 per person. Last year, weekly fees were paid for v vehicles and p persons. Which of the following expressions gives the total amount, in dollars, collected for weekly fees last year?

A. $20v + 10p$
B. $20p + 10v$
C. $10(v + p)$
D. $30(v + p)$
E. $10(v + p) + 20p$

2. If $r = 9$, $b = 5$, and $g = -6$, what does $(r + b - g)(b + g)$ equal?

F. -20
G. -8
H. 8
J. 19
K. 20

3. A copy machine makes 60 copies per minute. A second copy machine makes 80 copies per minute. The second machine starts making copies 2 minutes after the first machine starts. Both machines stop making copies 8 minutes after the first machine started. Together, the 2 machines made how many copies?

A. 480
B. 600
C. 680
D. 720
E. 960

4. Marlon is bowling in a tournament and has the highest average after 5 games, with scores of 210, 225, 254, 231, and 280. In order to maintain this exact average, what *must* be Marlon's score for his 6th game?

- F. 200
- G. 210
- H. 231
- J. 240
- K. 245

5. Joelle earns her regular pay of \$7.50 per hour for up to 40 hours of work in a week. For each hour over 40 hours of work in a week, Joelle is paid $1\frac{1}{2}$ times her regular pay. How much does Joelle earn for a week in which she works 42 hours?

- A. \$126.00
- B. \$315.00
- C. \$322.50
- D. \$378.00
- E. \$472.50

TLC Stamp

