Algebra 1 ECA Remediaiton
Name $\qquad$

## Quiz 23.1

## Find each product.

1) $(2 p+4)(-8 p+7)$
2) $(-2 x+1)(x+2)$
A) $-24 p^{2}-49$
A) $-2 x^{2}-3 x+2$
B) $-16 p^{2}-18 p+28$
C) $-24 p^{2}+14 p+49$
B) $-2 x^{2}-5 x-2$
C) $-2 x^{2}+5 x-2$
D) $-2 x^{2}+2$
3) $(4 m+5)^{2}$
A) $16 m^{2}+40 m+25$
B) $16 m^{2}-25$
C) $16 m^{2}+25$
D) $4 m+25$
4) $(2 n+6)^{2}$
A) $4 n^{2}-36$
B) $4 n^{2}+24 n+36$
C) $4 n^{2}+36$
D) $9 n^{4}-48 n^{2}+64$

Pat rode his skateboard home from school. The graph below shows Pat's distance from home over time.

Pat's Skateboard Ride Home

## Distance

 (miles)

Time (minutes)
5) On what time interval is Pat stopped?
A) 0 minutes to 10 minutes
B) 10 minutes to 40 minutes
C) 40 minutes to 45 minutes
D) Pat is never stopped
6) On what time interval is Pat traveling the fastest?
A) 0 minutes to 10 minutes
B) 10 minutes to 40 minutes
C) 40 minutes to 45 minutes
D) Pat travels at the same speed at all times

The graph below represents the total number of times a ball is kicked on the playground over a 5 - day period.

Ball Kicked on the Playground

Balls
Kicked

7) What is the slope of this line segment? Include the appropriate units in your answer.
A) $\frac{160}{1}$ balls kicked per Day
B) $\frac{16}{1}$ balls kicked per Day
C) $\frac{8}{1}$ balls kicked per Day
D) $\frac{32}{1}$ balls kicked per Day
8) Write an equation that represents the total number of balls kicked, B, after, d, days.
A) $B=160 d$
B) $\mathrm{B}=32 \mathrm{~d}$
C) $B=16 d$
D) $B=8 d$
9) If this trend continues, how many balls will be kicked in 8 days?
A) 256 Balls Kicked
B) 1280 Balls Kicked
C) 128 Balls Kicked
D) 64 Balls Kicked

