

Quiz 23.2

Find each product.

1) $(-4x - 3)(5x - 7)$

A) $-20x^2 + 21$

B) $-20x^2 + 13x + 21$

C) $-16x^2 - 8x + 8$

D) $-20x^2 - 43x - 21$

2) $(-8v - 3)(-3v + 7)$

A) $24v^2 - 21$

B) $-30v^2 + 6$

C) $-30v^2 + 3v + 6$

D) $24v^2 - 47v - 21$

3) $(5k + 6)^2$

A) $25k^2 + 60k + 36$

B) $25k^2 + 36$

C) $25k^2 - 36$

D) $16k^2 + 56k + 49$

4) $(3m + 6)^2$

A) $3m + 36$

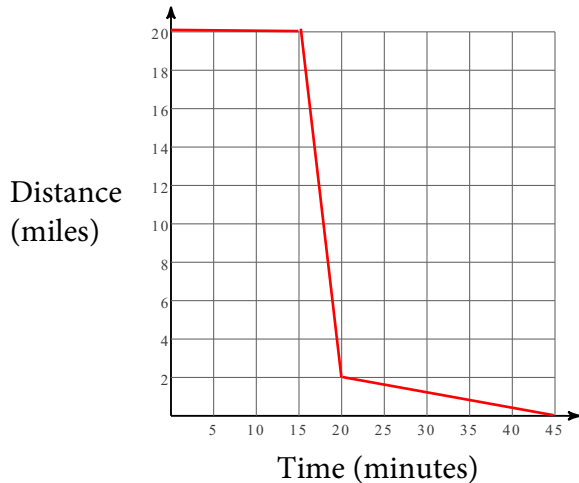
B) $9m^2 + 36$

C) $9m^2 + 36m + 36$

D) $9m^2 - 36$

Tom rode his motorcycle home from work.
The graph below shows Tom's distance from home over time.

Tom's Motorcycle Ride Home



5) On what time interval is Tom stopped?

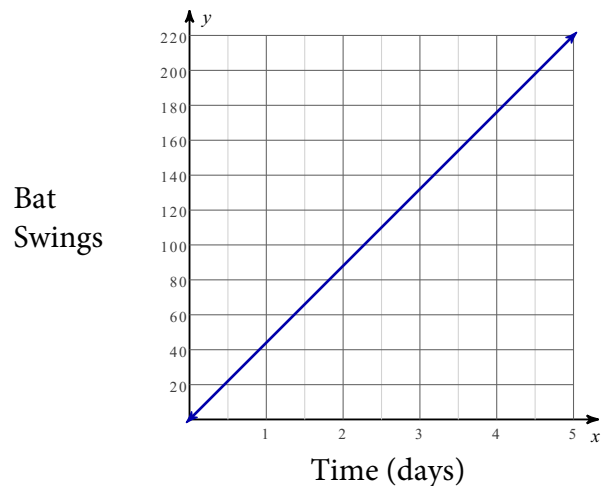
- A) 0 minutes to 15 minutes
- B) 15 minutes to 20 minutes
- C) 20 minutes to 45 minutes
- D) Tom is never stopped

6) On what time interval is Tom traveling the fastest?

- A) 0 minutes to 15 minutes
- B) 15 minutes to 20 minutes
- C) 20 minutes to 45 minutes
- D) Tom travels at a constant pace at all times

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

Bat Swung on the Playground



7) What is the slope of this line segment?
Include the appropriate units in your answer.

- A) $\frac{44}{1}$ bats swung per Day
- B) $\frac{22}{1}$ bats swung per Day
- C) $\frac{220}{1}$ bats swung per Day
- D) $\frac{11}{1}$ bats swung per Day

8) Write an equation that represents the total number of bats swung, B, after, d, days.

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|---------------|--------------|
| A) $B = 440d$ | B) $B = 22d$ |
| C) $B = 44d$ | D) $B = 11d$ |

9) If this trend continues, how many bats will be swung in 10 days?

- | | |
|-------------------|-------------------|
| A) 110 Bats Swung | B) 220 Bats Swung |
| C) 44 Bats Swung | D) 440 Bats Swung |