

High School:

There are 8 math teachers, and each teacher has 6 classes each day. There is a total of 15 algebra I classes, 14 geometry classes, 10 algebra II classes and the rest are precalculus, calculus, and advanced statistics.

1. Brian just received his schedule and is checking with his friends to see who he has class with. Brian and 5 of his friends are all in geometry. What is the likelihood that Brian has his math class with any of his friends? Justify your answer.

2. Shawn has E lunch. Lunches begin at 11:00 with A lunch, with the next lunch group beginning every 20 minutes. What time does Shawn have lunch? Justify your answer.

3. Megan is organizing her locker. Her locker is 12 inches wide, 15 inches deep and 2.5 feet tall. Her largest textbook is 14 inches by 12 inches by 2.5 inches. Megan wants to add 3 shelves to her locker, one for books, one for materials (pencils, pens, etc.) and one for snacks. She wants at least 1 foot at bottom of her locker to put her jacket when needed. What do you suggest she use for the dimensions of her shelves? Justify your answer.
