

## August 2021 challenge

- 1. My favourite number has two digits and an odd number of divisors. The sum of the digits is 13. What is my favourite number?
- 2. Washington High School randomly selected freshman, sophomore, junior, and senior students for a survey about potential changes to next year's schedule. Of students selected for the survey, 1/4 were freshmen and 1/3 were sophomores. Half of the remaining selected students were juniors. If 336 students were selected for the survey, how many were seniors?
- 3. The diameter of the cutting wheel on a manual can opener is ¾ of an inch and the diameter of a can of peaches is 2½ inches. How many times will the cutting wheel turn when opening the can?
- 4. The area of the floor of area rectangular room is 315 sq. feet. One wall is a rectangle of 120 sq. feet, and the other wall is a rectangle of 168 sq. feet The ceiling and the floor are parallel, how many cubic feet are in the volume of the room? (Note: all dimensions are whole numbers.)