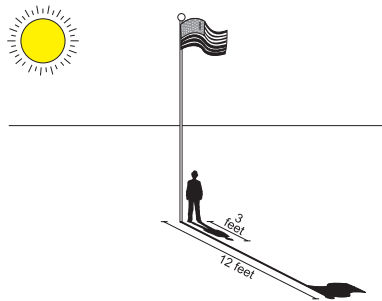


17. Kevin is standing next to the school's flagpole on a sunny day as shown in the diagram below.



Kevin is 5 feet tall. Which proportion could you use to find the height of the flagpole?

- A.  $\frac{3}{5} = \frac{12}{x}$
- B.  $\frac{3}{x} = \frac{5}{12}$
- C.  $\frac{3}{12} = \frac{x}{5}$
- D.  $\frac{3}{5} = \frac{x}{12}$

Reporting Category/Substrand for Item 17: **Number Sense/Number and Number Relationships (p. 143)**

## Mathematics, Grade 8

Use the chart below to answer question 18.

	Grade 6	Grade 7	Grade 8
Number	18	26	42

18. If a band member is chosen at random to represent the band at a parent-teacher meeting, which is the best estimate of the probability that an eighth grader will be chosen?
- A. 33%
  - B. 50%
  - C. 67%
  - D. 85%

*Reporting Category/Substrand for Item 18: **Statistics and Probability/Probability** (p. 147)*

19. A principal appointed a committee to decorate a row of lockers numbered 1 to 150. The committee decided to put
- a flower sticker on each 4th locker beginning with locker 4,
  - a red band of color on each 10th locker beginning with locker 10, and
  - a balloon sticker on each 15th locker beginning with locker 15.
- How many lockers got all three decorations?
- A. 2
  - B. 6
  - C. 4
  - D. none

*Reporting Category/Substrand for Item 19: **Number Sense/Number Systems and Number Theory** (p. 144)*

20. Of the 640 students in a school, 428 were born in Massachusetts. If a newspaper reporter interviews one student at random, which is the best estimate of the probability that the student was born in Massachusetts?

A.  $\frac{1}{2}$

B.  $\frac{2}{3}$

C.  $\frac{2}{1}$

D.  $\frac{3}{2}$

*Reporting Category/Substrand for Item 20: **Statistics and Probability/Probability** (p. 147)*