

Independent Practice

Go online for Step-by-Step Solutions 

1. If 45 cookies will serve 15 students, how many cookies are needed for 30 students? (Examples 1 and 2)

Show your work.

2. Four students spent \$12 on school lunch. At this rate, find the amount 10 students would spend on the same school lunch. (Example 3)

- 3 A Clydesdale drinks about 120 gallons of water every 4 days. At this rate, about how many gallons of water does a Clydesdale drink in 28 days? (Example 3)



4. **STEM** In 10 minutes, a heart can beat 700 times. At this rate, in how many minutes will a heart beat 140 times? At what rate can a heart beat? (Example 4)

- 5 **PS Make a Prediction** The table shows which school subjects are favored by a group of students. Predict the number of students out of 400 that would pick science as their favorite subject.

Favorite Subject	
Subject	Number of Responses
Math	6
Science	3
English	4
History	7

6. Liliana takes 4 breaths per 10 seconds during yoga. At this rate, about how many breaths would Liliana take in 2 minutes of yoga?

7. **PS Use Math Tools** Find a report in a newspaper or magazine, or on the Internet that uses results from a survey. Evaluate how the survey uses ratios to reach conclusions.

Power Up! Test Practice

19. At a bus station, buses depart at a rate of 3 every 10 minutes. At this rate, buses would depart in one hour.

20. Student Council sells bottled water at the cheerleading competition as shown in the table. Determine if each statement is true or false.

Cases Sold	3	6
Time (min)	20	40

- a. They sell 27 cases in 3 hours. True False
- b. They sell 12 cases in 1 hour 20 minutes. True False
- c. They sell 18 cases in 2 hours. True False
- d. They sell 24 cases in 2 hours 40 minutes. True False
- e. They sell 36 cases in 3 hours 20 minutes. True False

Spiral Review

Write each fraction as a unit fraction.

21. $\frac{12}{84} =$ _____

22. $\frac{13}{143} =$ _____

23. $\frac{23}{138} =$ _____

24. Skylar gained 64 yards on 16 carries during a recent football game. Find the ratio of yards per carry.

25. The drama club is washing cars for a fundraiser. If the rate continues, how many cars will they wash in 4 hours?

Hours	Cars Washed
1	8
2	16
3	24

26. Follow the rule to find the next three numbers in the pattern. Describe the pattern using the terms *even* and *odd*.

Add 5: 1, 6, 11, _____, _____, _____
