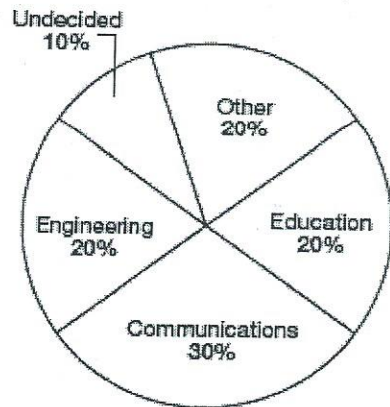## Review Test 3.2 Proportion & Percent

**1** Horatio places a rubber duck in the current of the Rio Grande River. The rubber duck floats 12 miles downstream in $2\frac{2}{3}$ hours. At this rate, about how many miles will the duck travel in 5 hours?

- **A** 15 miles
- **B** 20 miles
- **C** 25 miles
- **D** 30 miles

**2** The Garfield Middle School athletic department ordered 328 sweatshirts with the school's mascot printed on them. Of these sweatshirts, 82 were returned to the printing company because the wrong mascot was printed on them. What percent of the original order did the athletic department keep?

- **F** 85%
- **G** 75%
- **H** 33%
- **J** 25%

**3** Tara's fruit punch recipe calls for 3 quarts of ginger ale and 2 quarts of fruit juice to serve 16 people. Which expression represents the number of quarts of ginger ale she will need for a party of 100 people?

- **A** $\dfrac{100}{5 \cdot 16}$
- **B** $\dfrac{5}{16} \cdot 100$
- **C** $\dfrac{100}{3 \cdot 16}$
- **D** $\dfrac{3}{16} \cdot 100$

**4** Val ordered flowers to be delivered to her grandmother. The flowers cost $25. She gave the delivery person a 15% tip. How much was the tip?

- **F** $2.50
- **G** $2.75
- **H** $3.75
- **J** $7.50

**5** As an electrician, Sarah charges a service call fee of $65 and $45 per hour for every hour she spends on the job. How much will she charge for a 5-hour job?

- **A** $290
- **B** $225
- **C** $160
- **D** $155

**6** At Sam Houston Middle School, there are 700 boys. The ratio of boys to girls is 5 to 4. How many girls are there in the school?

- **F** 875
- **G** 560
- **H** 480
- **J** 240

**7** On a map of Texas, $\frac{5}{8}$ inch represents 100 miles. If the distance between Midland and Laredo on the map is $2\frac{1}{4}$ inches, what is the actual distancebetween the two cities?

- **A** 28 miles
- **B** 225 miles
- **C** 360 miles
- **D** 540 miles

**8** Keisha conducted a survey at Texas A & M University. The circle graph below shows the percentages of people who have certain majors.



If 24 people are majoring in education, how many people answered the survey in all?

F    5
G    100
H    120
J    360

**9** Tyler purchased 12 roses for $30. Which price represents the cost of roses at the same rate?

A    24 roses for $50
B    18 roses for $45
C    6 roses for $12
D    1 rose for $2

**10** A punch recipe calls for 3.5 ounces of juice concentrate to make 6 glasses of punch. According to this recipe, how many glasses of punch can be made from a 14-ounce can of juice concentrate?

F    24
G    25
H    28
J    32

**11** A digital camera that was originally priced at $349 is on sale for 20% off. There is also a 6.5% sales tax. Which expression can be used to find how much tax is due on the camera?

A    $0.065 \times 349 \times 0.08$
B    $0.065 \times 349 \times 0.20$
C    $0.8 \times 349 \times 0.065$
D    $0.2 \times 349 \times 1.065$

**12** Haley's average heart rate is 72 beats in 60 seconds. Which of the following represents an equivalent heart rate?

F    32 beats in 30 seconds
G    50 beats in 45 seconds
H    20 beats in 15 seconds
J    12 beats in 10 seconds

**13** There are 40 newborn babies in the hospital nursery. For every 3 girls, there are 2 boys. How many newborn boys are in the nursery?

A    7
B    12
C    16
D    18

**14** The Rosati family went out to dinner. The cost of the dinner was $38.00 before adding the tip. They want to leave a 15% tip. Which of the following represents the 15% tip?

F    $0.57
G    $5.70
H    $11.40
J    $15.00