

Ratio and Percent Problems

Race car A drives on a 5-mile racetrack, completing one lap every 2 minutes. Race car B drives on a 12-mile racetrack, completing one lap every 5 minutes. Fill in the tables below.

Race car A

	distance	time
1 lap	5 miles	2 minutes
2 laps		
3 laps		
4 laps		
5 laps		
6 laps		
7 laps		
8 laps		
9 laps		
10 laps		
11 laps		
12 laps		

Race car B

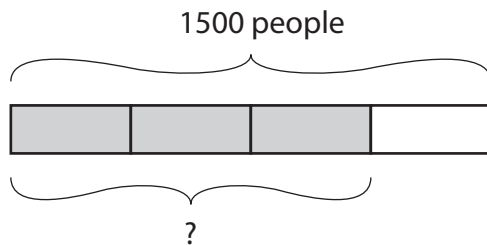
	distance	time
1 lap	12 miles	5 minutes
2 laps		
3 laps		
4 laps		
5 laps		
6 laps		
7 laps		
8 laps		
9 laps		
10 laps		
11 laps		
12 laps		

Use the tables to help you answer the next questions.

1. How long does it take Race car A to go 60 miles? Answer: _____
2. How long does it take Race car A to go 60 miles? Answer: _____
3. How far does Race car A go in 10 minutes? Answer: _____
4. How far does Race car B go in 10 minutes? Answer: _____
5. Which race car is faster? Explain your answer.

6. In a survey, 3 out of every 4 people liked Brand A cola better than Brand B cola. There were 1500 people who answered the survey. How many people liked Brand A cola better?

Answer: _____

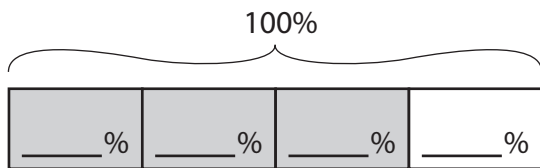


7. In sixth grade, 3 out of every 5 students had a pencil. There were 160 students in sixth grade. How many students in sixth grade had a pencil?

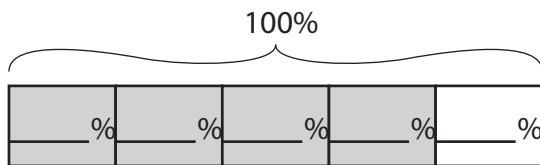
Draw a picture to help you solve the problem.

Answer: _____

8. Fill in the blanks with the correct percentages. Then write the portion of the strip that is shaded as a fraction and as a percent.



_____ = _____
 fraction shaded percent shaded



_____ = _____
 fraction shaded percent shaded

9. Find 10% of \$40. Answer : _____
 Find 5% of \$40. Answer: _____
 Find 15% of \$40. Answer: _____
10. Find 10% of \$700. Answer : _____
 Find 5% of \$700. Answer: _____
 Find 15% of \$700. Answer: _____
11. Find 50% of \$85. Answer: _____