

Questions 1, 2, 3, and 4 refer to the following information.

In Mrs. Archuleta's math class there are a **total** of 30 students in class. 20 students are girls.

1. What is the ratio of **girls to boys**?

	⊗	⊗	⊗	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

2. What is the ratio of **girls to the total** number of students?

① ② ③ ④ ⑤

- (1) 3:2
(2) 2:3
(3) 1:3
(4) 1:2
(5) 3:1

3. What is the ratio of **boys to the total** number of students?

① ② ③ ④ ⑤

- (1) 1:4
(2) 4:1
(3) 1:3
(4) 3:1
(5) 5:1

4. What is the ratio of the **total** number of students **to girls**?

① ② ③ ④ ⑤

- (1) 1:4
(2) 4:3
(3) 3:4
(4) 4:1
(5) 3:2

5. To make cranberry juice, combine a can of concentrate with 3 cans of water. Write the ratio of **water to concentrate**.

① ② ③ ④ ⑤

- (1) 1:3
(2) 3:1
(3) 4:1
(4) 5:1
(5) 1:6

6. Donna takes home \$2,000 a month. She saves \$200 and spends the rest. Write a ratio of the amount Donna **spends to** the amount Donna **saves** each month.

① ② ③ ④ ⑤

- (1) 1:9
(2) 9:1
(3) 10:1
(4) 1:10
(5) 3:5

7. The Bobcats lost 14 games and won 8 games this season. Write the ratio of **wins to losses**.

① ② ③ ④ ⑤

- (1) 4:11
(2) 4:7
(3) 7:4
(4) 11:4
(5) 1:4

8. Pam sleeps 8 hours every night. What is the ratio of Pam's time spent **sleeping to** Pam's time spent **not sleeping**?

① ② ③ ④ ⑤

- (1) 1 to 2
(2) 2 to 1
(3) 1 to 3
(4) 1 to 4
(5) 4 to 1

9. To make limeade, add 4 cans of water to a can of limeade concentrate. Write the ratio of **concentrate** to **water**.

	⊗	⊗	⊗	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

10. Vail Ski Resort advertised that it had 23 snow days during January. Write a ratio of **snow** days to **no snow** days for January. There are a total of 31 days in January.

① ② ③ ④ ⑤

- (1) $\frac{23}{31}$
 (2) $\frac{23}{8}$
 (3) $\frac{8}{23}$
 (4) $\frac{31}{23}$
 (5) $\frac{8}{31}$

11. What is the ratio of **15 inches** to **a yard**?
 36 inches = 1 yard.

① ② ③ ④ ⑤

- (1) 12:5
 (2) 5:12
 (3) 5:1
 (4) 1:5
 (5) 7:12

12. Sylvia's living room is 15 feet long and 12 feet wide. What is the ratio of the **width** to the **length**?

① ② ③ ④ ⑤

- (1) 5:4
 (2) 4:5
 (3) 3:5
 (4) 5:3
 (5) 3:2

13. In town, Louie gets 16 miles on a gallon of gasoline. In the country, he gets 24 miles per gallon. What is the ratio of his **town** gas mileage to his **country** gas mileage?

① ② ③ ④ ⑤

- (1) 4:5
 (2) 3:2
 (3) 2:3
 (4) 4:3
 (5) 5:4

14. The softball team at Taylor Lumber has 20 members. Twelve of them are men. What is the ratio of the number of **men** to the number of **women** on the team?

① ② ③ ④ ⑤

- (1) 3:5
 (2) 2:3
 (3) 3:2
 (4) 2:5
 (5) 5:2

15. Simplify (reduce) the ratio **12:15**.

	⊗	⊗	⊗	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

16. The Coffee Factory has a total of 150 employees. 105 employees belong to the union. What is the **ratio** of the number of employees who **do not belong to the union** to the **total** number of employees in the factory?

① ② ③ ④ ⑤

- (1) $\frac{1}{10}$
 (2) $\frac{3}{10}$
 (3) $\frac{7}{10}$
 (4) $\frac{9}{10}$
 (5) $\frac{1}{12}$

17. Sugar City has a total budget of \$18,000,000. \$3,000,000 is spent on education. What is the ratio of the amount spent on **education** to the amount **not spent on education**?

① ② ③ ④ ⑤

- (1) 1:5
(2) 1:3
(3) 3:5
(4) 3:8
(5) 5:8

18. The GED math test has a total of 50 questions. There are 15 fraction problems and 5 decimal problems. What is the ratio of the total number of **fraction and decimal problems** to the **total number of problems** on the test?

① ② ③ ④ ⑤

- (1) $\frac{1}{4}$
(2) $\frac{2}{5}$
(3) $\frac{3}{8}$
(4) $\frac{2}{9}$
(5) $\frac{1}{15}$

19. In Yvette's Day Care Center there are a total of 80 children. There are 48 girls. What is the ratio of the number of **boys** to the number of **girls**?

① ② ③ ④ ⑤

- (1) 1:3
(2) 2:3
(3) 3:5
(4) 3:7
(5) 3:2

20. Simplify the ratio **27:9**.

① ② ③ ④ ⑤

- (1) $\frac{1}{3}$
(2) $\frac{3}{7}$
(3) $\frac{3}{1}$
(4) $\frac{3}{5}$
(5) $\frac{3}{4}$

Questions 21 and 22 refer to the following information.

Last season, the Tigers played a total of 80 games. They lost 20 games.

21. What is the ratio of the number of games the team **won** to the **total** number of games it played?

	⊗	⊗	⊗	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

22. What is the ratio of the number of games the team **lost** to the **total** number of games it played?

① ② ③ ④ ⑤

- (1) $\frac{1}{8}$
(2) $\frac{1}{4}$
(3) $\frac{3}{4}$
(4) $\frac{3}{8}$
(5) $\frac{3}{9}$

23. Find the ratio of **4 ounces** to **a pint**.

(1 pint = 16 ounces)

① ② ③ ④ ⑤

- (1) 1 to 4
(2) 4 to 1
(3) 1 to 16
(4) 16 to 1
(5) 17 to 1

24. Clyde bought a stereo on sale for \$450. He saved \$150 by buying the stereo on sale. What was the ratio of the **sale price** to the **original price**?

① ② ③ ④ ⑤

- (1) 4:3
(2) 3:4
(3) 1:9
(4) 1:10
(5) 9:1

25. Mrs. Nuno's monthly salary is \$1800. She pays \$300 a month for rent. What is the ratio of her rent to the amount she has left after paying rent?
① ② ③ ④ ⑤
(1) 5:1
(2) 1:5
(3) 1:6
(4) 6:1
(5) 7:1
26. Virginia weighed 150 pounds in March. By the following September, she had lost 30 pounds. Find the ratio of her March weight to her September weight.
① ② ③ ④ ⑤
(1) 4 to 3
(2) 3 to 4
(3) 5 to 4
(4) 5 to 1
(5) 1 to 5
27. Diana has paid off \$1500 on a \$5000 car loan. What is the ratio of the amount she has already paid to the amount she still owes?
① ② ③ ④ ⑤
(1) 7:3
(2) 3:5
(3) 3:7
(4) 5:3
(5) 3:4
28. On a test, Arsenia got 40 problems right and 16 problems wrong. What is the ratio of the number she got right to the total number of problems?
① ② ③ ④ ⑤
(1) 5:7
(2) 5:8
(3) 7:5
(4) 6:5
(5) 5:6
29. Francisco's recipe calls for 3 cups of white flour and 2 cups of whole wheat flour. In this recipe, what is the ratio of whole wheat flour to white flour?
① ② ③ ④ ⑤
(1) 2:3
(2) 3:2
(3) 5:2
(4) 2:5
(5) 4:5
30. In Margie's class there are 14 girls and 12 boys. Find the ratio of girls to boys in this class.
① ② ③ ④ ⑤
(1) 6:7
(2) 7:6
(3) 1:6
(4) 12:1
(5) 14:1
31. When he remodeled his house, Anthony spent \$2400 for materials and \$4200 for labor. Find the ratio of the labor costs to the cost of materials.
① ② ③ ④ ⑤
(1) 7:4
(2) 4:7
(3) 4:3
(4) 7:3
(5) 3:7
32. Three of Becky's children are girls, and two are boys. What is the ratio of boys to girls in Becky's family?
① ② ③ ④ ⑤
(1) 2:3
(2) 3:2
(3) 3:1
(4) 1:3
(5) 4:1
33. Dolores earns \$5.00 an hour. Her husband Manuel earns \$3.75 an hour. What is the ratio of Manuel's earnings to Dolores's earnings?
① ② ③ ④ ⑤
(1) 4:3
(2) 3:4
(3) 1:4
(4) 5:1
(5) 6:5

34. In town, Richard gets an average of 15 miles per gallon. In the country, he gets an average of 25 miles per gallon. What is the ratio of Richard's **town mileage** to his **country mileage**?

	⊘	⊘	⊘	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

35. At the Pueblo Power Company, 80 workers are women and 440 are men. What is the ratio of **men** to **women** at the company?

① ② ③ ④ ⑤

- (1) 2:11
(2) 11:2
(3) 2:1
(4) 12:1
(5) 2:13

36. What is the ratio of **6 ounces** to **a pint**? (1 pint = 16 ounces)

① ② ③ ④ ⑤

- (1) 1:4
(2) 3:8
(3) 6:1
(4) 3:16
(5) 1:16

37. The Mitchell's gross income is \$960 a month. They pay \$180 for rent. What is the ratio of the Mitchell's **rent** to their **income**?

① ② ③ ④ ⑤

- (1) 2:8
(2) 3:16
(3) 16:3
(4) 1:96
(5) 10:1

38. Maxine's living room is 12 feet wide and 18 feet long. What is the ratio of the **length** of the room to the **width**?

	⊘	⊘	⊘	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

39. Manuel's gross salary is \$210 a week. Manuel's employer deducts \$42 each week for taxes and social security. What is the ratio of the **deductions** to Manuel's **gross salary**?

① ② ③ ④ ⑤

- (1) 1:3
(2) 1:5
(3) 1:7
(4) 1:6
(5) 1:8

40. What is the ratio of **9 inches** to **a yard**? (1 yard = 36 inches)

① ② ③ ④ ⑤

- (1) 1:2
(2) 1:3
(3) 1:4
(4) 1:5
(5) 1:6

41. The Estradas had a \$30,000 mortgage on their house. So far, they have paid \$12,000 toward the mortgage. What is the ratio of the amount the Estradas **have paid** to the **total** amount of the mortgage?

① ② ③ ④ ⑤

- (1) 1:3
(2) 2:5
(3) 3:5
(4) 4:5
(5) 5:2

42. Michael got 5 problems wrong on a test. The test had 40 problems. What was the ratio of the number of problems Michael got **right** to the **total** number of problems on the test?
- ① ② ③ ④ ⑤
- (1) 1:2
(2) 2:3
(3) 3:8
(4) 7:8
(5) 5:4
43. In January, Jimmy weighed 240 pounds. By September, Jimmy lost 60 pounds. What is the ratio of Jimmy's **September** weight to his **January** weight?

	⊘	⊘	⊘	
⊙	⊙	⊙	⊙	⊙
①	①	①	①	①
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨