

MODULE
6
Representing Ratios and Rates
Module Quiz: B

- Which of the following ratios is **not** equivalent to the other three?

A $\frac{2}{3}$ C 4 to 6

B $\frac{4}{5}$ D 8 to 12
- In Timra's math class, there are 12 boys and 15 girls. Which of the following is the ratio of boys to girls in Timra's math class?

A $\frac{12}{27}$ C $\frac{15}{12}$

B $\frac{12}{15}$ D $\frac{27}{12}$
- Kimmy bought a 5-kilogram can of peanuts for \$4.50. What is the unit price?

A \$0.05/kg C \$0.50/kg

B \$0.45/kg D \$0.90/kg
- There are 250 bricks used to build a wall that is 20 feet high. How many bricks will be used to build a wall that is 30 feet high?

A 260 C 375

B 330 D 400
- Johanna can jog 3,000 feet in 5 minutes. If she jogs at the same rate, how many feet can she jog in 8 minutes?

A 4,000 ft C 5,600 ft

B 4,800 ft D 6,400 ft
- Andrea deposits \$350 dollars in her checking account on Tuesday. On Wednesday she withdraws \$100. On Thursday she deposits \$75. Which of the following shows the change in Andrea's account from Tuesday to Thursday?

A $350 - 100 - 75$

B $350 - 100 + 75$

C $350 + 100 - 75$

D $350 + 100 + 75$
- Alexa is making a recipe that requires 1 cup of water and 4 cups of flour. Which of the following combinations shows the same ratio of water to flour?

A 2 cups of water to 3 cups of flour

B 2 cups of water to 4 cups of flour

C 2 cups of water to 8 cups of flour

D 3 cups of water to 6 cups of flour
- Misti bought a package of three T-shirts for \$18.75. What is the unit price per T-shirt?

A \$6.25 C \$12.50

B \$6.50 D \$15.75
- Which of the following ratios is equivalent to 2:3?

A $\frac{1}{2}$ C $\frac{12}{13}$

B $\frac{4}{6}$ D $\frac{20}{25}$
- Which of the following is equal to the absolute value of $5 + 7 - 15$?

A -3 C 3

B 0 D 27
- Arjun can type 40 words per minute. Dalia can type 55 words per minute. If Arjun and Dalia each type for 30 minutes, about how many more words will Dalia type?

A 45 C 900

B 450 D 1,200
- The local farmer's market sells a 4-pound basket of apples for \$5.60. Each apple weighs about 4 ounces. What is the price per apple?

A \$0.35 C \$0.45

B \$0.40 D \$0.50

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13. The ratio of white marbles to blue marbles in Connie’s bag of marbles is equal to 2:3. There are more than 20 marbles in the bag. What is a possible number of white marbles and blue marbles in the bag?
- _____

14. Javier bought a 20-ounce smoothie that contains 450 total calories. How many calories does the smoothie contain per ounce?
- _____

15. **Gemma’s Soup Recipe**

Ingredient	Quantity (c)
Water	4
Chicken Stock	3.5
Mixed Vegetables	8
Spices	1

Gemma’s soup recipe is shown in the table above. What is the ratio of chicken stock to mixed vegetables? Express the ratio as a fraction in simplest form and as a decimal.

16. The ratio of elephants to tigers at the local zoo is 1:4. There are 16 elephants at the zoo. How many tigers are there?
- _____

17. One afternoon, Kassim’s sandwich shop sells 15 sandwiches in 45 minutes. If the shop continues to sell sandwiches at the same rate, about how many sandwiches will the shop sell in 3 hours?
- _____

18. Barry’s deck of cards contains 40 blue cards and 70 red cards. Max’s deck of cards contains the same number of blue cards, but the ratio of blue cards to red cards is 8:9. How many total cards does Max’s deck of cards contain?
- _____

19. Anabel uses 5 gallons of gas to drive 140 miles on the highway. If she travels at the same rate, how many miles can she drive on 7 gallons of gas?
- _____

20. Kellan’s lemonade recipe uses 4 scoops of lemonade powder for every 2.5 cups of water. Kellan uses 10 scoops of lemonade powder to make a batch of lemonade. How much water should he use?
- _____

21. The ratio of forks to knives in Mabel’s kitchen drawer is 4 to 5. There are 16 forks in the drawer. How many knives are there?
- _____

22. On Monday, Janelle earned \$16 for 2 hours of babysitting. Getting paid the same rate, she earned \$40 for babysitting on Saturday. How many hours did Janelle babysit on Saturday?
- _____

23. Karen read 20 pages of her book in a half hour. If she reads for 3 hours at that same rate, about how many pages of her book can Karen read?
- _____

13. \$36.90
14. \$9.76
15. 15.0625 mi
16. 2 h
17. 9 weeks
18. \$8/h
19. \$0.15
20. \$41.66
21. 15.6 oz

Module Quiz 5: D

1. C
2. B
3. B
4. C
5. C
6. A
7. B
8. C
9. C
10. A
11. B
12. A
13. \$30
14. \$5.41
15. 16.4
16. 21.1 s
17. 1
18. 10.1
19. 0.18
20. \$8/h
21. \$0.70
22. \$11.49
23. 3 more glasses
24. 3

MODULE 6 Representing Ratios and Rates

Module Quiz 6: B

1. B
2. B
3. D

4. C
5. B
6. B
7. C
8. A
9. B
10. C
11. B
12. A
13. Sample answers: 10 white marbles and 15 blue marbles, 12 white marbles and 18 blue marbles
14. 22.5 cal
15. $\frac{7}{16}$ or 0.4375
16. 64 tigers
17. 60 sandwiches
18. 85 cards
19. 196 mi
20. 6.25 c
21. 20 knives
22. 5 h
23. 120 pages

Module Quiz 6: D

1. C
2. A
3. A
4. B
5. C
6. C
7. B
8. B
9. B
10. C
11. C
12. A
13. 600 trout
14. 20 cal
15. $\frac{2}{3}$
16. 30 cats
17. 30 blue tacks