

Ratios rates and proportions



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1. Lea's car travels an average of 30 miles per gallon of gas. If she spent \$20.70 on gas for a 172.5 mile trip, what was the approximate cost of gas in dollars per gallon?

- A. \$1.45 per gallon
- B. \$3.40 per gallon
- C. \$3.60 per gallon
- D. \$5.75 per gallon

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2. Kavitha and Andrei are truck drivers for the Delightful Delivery Company, which services cities W, T, and Q.

The distance from city W to city T is 48.5 miles.

The distance from city T to city Q is 20 miles.

The distance from city Q to city W is 36 miles.

If Kavitha's truck and Andrei's truck travel at the same speed, and it takes Andrei 91 minutes to go from city W to city T, about how much time will it take Kavitha to travel from city W to city Q?

- A. 19 minutes
- B. 38 minutes
- C. 68 minutes
- D. 123 minutes

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3. Yasemin is using a sugar cookie recipe with a flour to sugar ratio of 11:6. To make one batch of cookies, 2.75 cups of flour are needed. If Yasemin would like to triple the recipe, which of the following best approximates how much sugar she will need?

- A. 1.5 cups
- B. 4.5 cups
- C. 5 cups
- D. 15 cups

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4. A certain high school geometry class is made up of freshmen and sophomores. The ratio of freshmen to sophomores in that class is 3:4. If there are 12 sophomores in the class, what is the total number of students in the class?

- A. 9
- B. 16
- C. 21
- D. 28

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5. A donut company makes cream-filled donuts using $\frac{1}{4}$ cup (c) of dough and $\frac{1}{2}$ tablespoon (tbsp) of cream per donut. The company decides to change their recipe to use 3 times the amount of cream for their "New Triple-Stuffed Donuts!" If the donut company's new recipe uses the same amount of dough per donut, what is the ratio of dough to cream needed to make 12 triple-stuffed donuts?

- A. 1 c:3 tbsp
- B. 1 c:6 tbsp
- C. 2 c:3 tbsp
- D. 1 c:2 tbsp

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6. A marine aquarium has a small tank and a large tank, each containing only red and blue fish. In each tank, the ratio of red fish to blue fish is 3 to 4. The ratio of fish in the large tank to fish in the small tank is 46 to 5. What is the ratio of blue fish in the small tank to red fish in the large tank?

- A. 15:184
- B. 10:69
- C. 69:10
- D. 184:15

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7. Two leading brands of paper towels are on sale. Brand A has 6 rolls, each with 56 sheets, for \$4.29. Brand B has 8 rolls, each with 48 sheets, for \$5.99. Which of the following best describes the relationship between the cost per sheet of the two brands?

- A. The two brands cost the same amount per sheet.
- B. Brand B costs \$0.003 more per sheet than Brand A.
- C. Brand A costs \$0.003 more per sheet than Brand B.
- D. Brand B costs \$0.03 more than Brand A.

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8. Zhang Lei spent \$20.00 during his last outing at the bowling alley. This included a one time shoe rental fee of \$3.50. He spent the rest of the money on bowling a number of games. If it took Zhang Lei 45 minutes to bowl each game and he spent 2 hours and 15 minutes bowling, how much did it cost per game?

- A. \$3.00
- B. \$5.50
- C. \$6.67
- D. \$7.34

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9. Mr. Bumble delivers newspapers to his community every week. His route takes 3 hours to complete. During the first 2 weeks of delivering newspapers, he traveled a total of 100 blocks. Mr. Bumble delivers newspapers for 50 weeks each year. How many blocks does Mr. Bumble travel delivering newspapers in 1 year?

- A. 1 block
- B. 4 blocks
- C. 50 blocks
- D. 2,500 blocks

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10. During a timed test, Alexander typed 742 words in 14 minutes. Assuming Alexander works at this rate for the next hour, which of the following best approximates the number of words he would type in that hour?

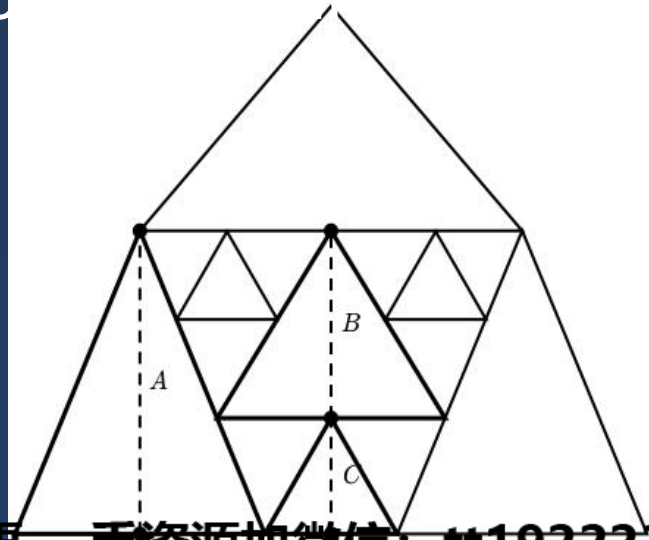
- A. 53
- B. 840
- C. 3180
- D. 44,520

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11. A quilter wants to make the design shown above using the Golden Ratio. Specifically, he wants the ratio of the triangle heights $A:B$ and $B:C$ to each equal 1.62. If the quilter makes the triangle height $A=8$ in, approximately how tall should he make triangle height C ?

- A. 3 in
- B. 4 in
- C. 5 in
- D. 6 in



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12. Elena is conducting a study about the effects of toxins in the water on the hormones of fish. Elena surveys 350 male fish in a river and finds that 150 of the male fish have egg cells growing inside them. According to Elena's survey, what is the ratio of male fish with egg cells to male fish without egg cells in the river?

- A. 3:4
- B. 3:7
- C. 4:5
- D. 4:7

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Thanks

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