

$$48 - 2 + 21 = \frac{46}{21}$$

$$3(16)$$

1. Simplify: $3(4)^2 - 2 + 3(7)$

1. 67

2. What is the value of $\frac{7!}{5!}$?

2. 42

3. An airline company charges \$40 for the first 220-mile leg of a trip and \$80 for a second leg of 380 miles. What is the average cost in dollars per mile of the entire trip?

3. 0.20

4. Express as a common fraction: $\frac{1}{\frac{1}{2} + \frac{1}{3} + \frac{1}{4}}$

4. $\frac{12}{13}$

5. Adam mailed a package at the priority mail rate of \$0.25 for the first ounce and \$0.20 for each additional ounce. If he paid \$3.45, how many ounces did the package weigh?

5. 17 oz $16+1=17$

$$\begin{array}{r} 345 \\ 25 \\ \hline 320 \\ 16 \\ \hline 320 \\ 20 \\ \hline 120 \end{array}$$

6. A 3-cm-by-4-cm-by-2-cm rectangular box is filled with salt. If salt weighs 0.03 kilograms per cubic centimeter, what is the weight in kilograms of the salt in the box? Express your answer as a decimal.

6. 0.72

7. If gasoline costs \$1.20 per gallon, how many dollars will it cost to drive a car 200 miles if it averages 25 miles per gallon?

7. \$ 9.60

8. If 1% of a shipment of 2,000 light bulbs is defective, how many bulbs in the shipment are not defective?

8. 1,980

9. A square and a triangle have equal perimeters. The lengths of the sides of the triangle are 13 cm, 15 cm, and 16 cm. What is the area in square centimeters of the square?

9. 121

10. In a mile race, Jed beats Ed by 138 yards and Jed beats Ned by 157 yards. When Jed crossed the finish line, by how many yards did Ed lead Ned?

10. 19

11. A particular type of bacteria doubles every 4 hours. If there are 300 bacteria in a mold at the present time, after how many hours will the mold contain 9600 bacteria?

11. 20

25. What is the total surface area, in sq cm, of a 10-cm-by-7-cm-by-5-cm right rectangular prism? 25. _____

26. The product of two integers is -270. Their sum is 21. What are the numbers? 26. _____

27. How many prime numbers are between 40 and 49? 27. _____

28. Express in simplest form: $\frac{\frac{1}{2} + \frac{1}{3}}{\frac{1}{2} - \frac{1}{3}}$ 28. _____

29. Seventeen is 17% of what number? 29. _____

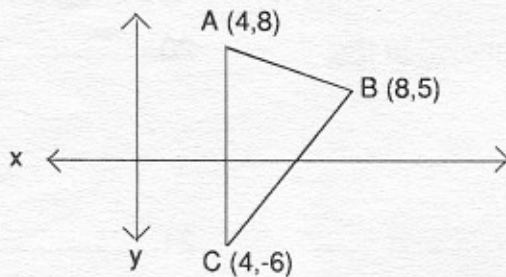
30. Point C is two-thirds of the distance from point A to point B. What is the coordinate of point C? 30. _____



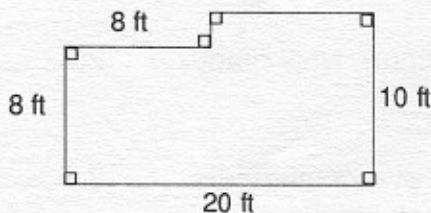
31. If the four-digit number 57d2 is divisible by 18, what is d? 31. _____

32. How many distinct prime numbers are factors of 1,650? 32. _____

33. Find the area of triangle ABC. 33. _____



34. What is the area in square feet of this figure? 34. _____



35. What three consecutive even integers have a sum of 48? 35. _____