

FINAL REVIEW

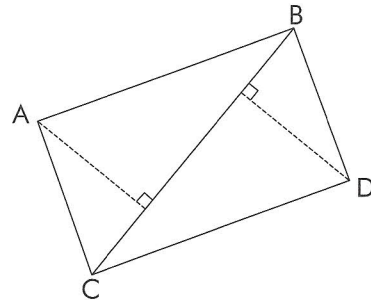
Choose the correct answer, and write its number in the parentheses. Do not use a calculator.

1. Which digit in 9,403,512 is in the ten thousands place?

- (1) 0 (3) 4
(2) 3 (4) 9 ()

2. In the figure below, which line is the base of triangle BCD?

- (1) BD
(2) AC
(3) BC
(4) CD



()

3. A triangle has a base of 4 in. Its height is half as long as its base. The area of the triangle is _____.

- (1) 4 in.² (3) 16 in.²
(2) 8 in.² (4) 32 in.² ()

4. Estimate the value of $9,859 \div 9$.

- (1) 1,000 (3) 1,095
(2) 1,088 (4) 1,100 ()

5. Tamika has a mass of 36 kg and Tricia has a mass of 54 kg. What is the ratio of Tamika's mass to the total mass of both girls?

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

6. 51,125, 53,625, _____, 58,625, 61,125

Complete the number pattern.

(1) 54,125

(3) 56,125

(2) 54,625

(4) 56,625

()

7. $125 \times 69 =$ _____

(1) 8,500

(3) 8,750

(2) 8,625

(4) 8,875

()

8. At a bookfair, Carmen sold 4,938 novels on Friday and 6,054 novels on Saturday. She found that she still had 19,835 novels left. How many novels did she have in the beginning?

(1) 10,992

(3) 25,889

(2) 24,773

(4) 30,827

()

9. $8\frac{4}{5}$ of 30 has the value of _____.

(1) 246

(3) 264

(2) 260

(4) 266

()

10. Which of the following shows nine million, ninety thousand, nine hundred nine correctly?

(1) 9,009,090

(3) 9,090,909

(2) 9,090,099

(4) 9,900,909

()

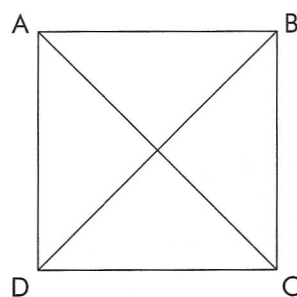
11. ABCD is a square that measures 12 in. on each side. Lines AC and BD divide the square into 4 identical triangles. Find the area of triangle DAB.

(1) 18 in.²

(2) 36 in.²

(3) 72 in.²

(4) 144 in.²



()

12. Write 250 cents as a ratio of \$10.

(1) 1 : 4

(3) 2 : 5

(2) 1 : 25

(4) 4 : 1

()

13. Write $7\frac{5}{7}$ as a decimal. Round the answer to 2 decimal places.

(1) 7.57

(3) 7.71

(2) 7.70

(4) 7.75

()

14. $12\frac{1}{5} - 5\frac{1}{10} =$ _____

(1) $6\frac{9}{10}$

(3) $7\frac{1}{10}$

(2) 7

(4) $17\frac{3}{10}$

()

15. At a camera store, \$6,384 was collected from the sale of film which was sold in boxes of 2 rolls each. How many rolls of film were sold altogether if the price of each box of film was \$21?

(1) 152

(3) 456

(2) 304

(4) 608

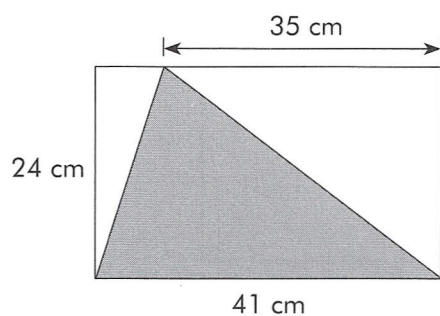
()

Write your answers on the lines.

16. The population of a city is 195,643. Round the population of the city to the nearest thousand.

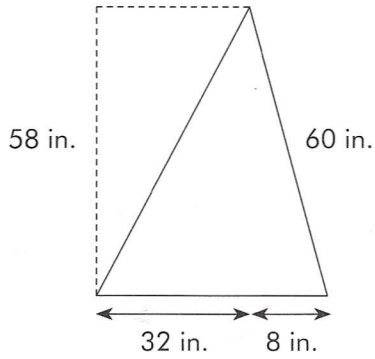
17. What does the digit 7 stand for in 1,073,564?

18. Find the area of the shaded triangle.



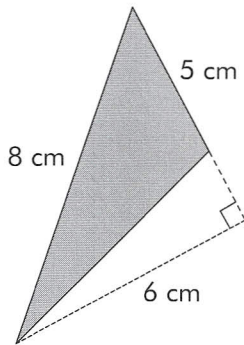
19. There are 42 students in the class. If 8 students fail a test, what is the ratio of students who fail the test to students who pass the test?

20. Find the area of the triangle.



21. Max baked 84 boxes of muffins. There were 12 muffins in each box. He sold each muffin for \$2. How much money would he make if he sold all the muffins?

22. Find the area of the shaded triangle.



23. Find the value of $4\frac{6}{8} \times 12$.

24. Write three million, five hundred nine thousand as a numeral.

25. Jasmine mixes 3,750 mL of lemonade concentrate with 8,750 mL of water. The mixture can fill 10 identical bottles completely. What is the capacity of each bottle? Write your answer in liters.

26. $18 : 30 : 72 = 6 : \square : 24$

What is the missing number in the box?

27. Vijay ate $\frac{3}{11}$ of a pizza and gave a quarter of the remaining pizza to his sister. What fraction of the pizza did he have left?

28. Mrs. Campbell bought 3 kg of sugar. She used $\frac{3}{4}$ of it. How many grams of sugar did she have left?

29. Derrick is 8 years old. He is 32 years younger than his father. Write the ratio of Derrick's age to his father's age.

30. Find the value of $80 \times (69 + 22) - 288$.

 Write your answers on the lines. You may use a calculator.

31. Solve $75 \times 3 + 108 \div (27 \div 3)$.

32. Multiply 949 by 86.

33. Solve $\frac{36}{5} + \frac{29}{9}$.

34. Divide 3,528 by 36.

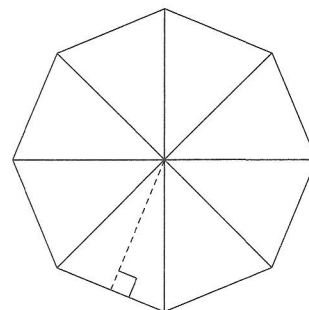
35. 7 girls shared $\frac{3}{4}$ of a loaf of banana bread equally. What fraction of the banana bread did each girl receive?



Show your work and write your answers in the space below. You may use a calculator.

36. 3 plates and 4 cups cost \$35.50, while 3 plates and 3 cups cost \$31.50. What is the cost of 9 plates?

37. The figure below shows an octagon made of 8 identical triangles. Find the area of the octagon if each triangle has a base of 5 cm and a height of 8 cm.



38. A tour package to Japan costs $2\frac{1}{2}$ times as much as a tour package to Indonesia. The tour package to Japan costs $\frac{5}{7}$ times as much as a tour package to England. If the cost of the Indonesian tour package is \$880, find the total cost of all 3 tour packages.

39. The total mass of 3 baskets of vegetables is $21\frac{3}{5}$ lb. Basket A has a mass of $6\frac{1}{4}$ lb. and Basket B has a mass of $2\frac{7}{8}$ lb. more than Basket A. What is the difference between the mass of the heaviest and the lightest baskets of vegetables?

40. The ratio of the sides of 2 squares is 7 : 9. The perimeter of the smaller square is 112 cm. What is the difference in the area of the 2 squares?
41. Chloe bought an equal number of forks and spoons for a party. The forks were sold at 3 for \$2 and the spoons were sold at 4 for \$3. She spent \$5 more on spoons than on forks. How much did she spend altogether?

42. Last year, $\frac{1}{4}$ of the members in a health club were women. When 56 women joined the club, the fraction of women in the health club became $\frac{5}{6}$. How many men were there in the health club?

43. Jason used $\frac{3}{7}$ of a pile of paper for a project. Olivia used $\frac{1}{6}$ of the remaining pile of paper for the same project. If there were 90 pieces of unused paper, how many pieces of paper were there in the beginning?

44. The ratio of Michael's points on an English test to Paloma's points on the same test is $12 : 11$. The ratio of Michael's points on the English test to Anton's points on the same test is $4 : 3$. The 3 students score a total of 224 points on the same test. What is the difference between Paloma's and Anton's points on the English test?
45. A salesperson had to sell 50 watches for his company every month. For every watch he sold, he earned \$34. In addition, he had to buy every unsold watch from his company for \$68. If he made \$986 at the end of a month, how many watches were not sold that month?

46. Tierra had 5 times as many trading cards as Patrick. Tierra gave $\frac{1}{4}$ of her trading cards to Patrick. Patrick then gave $\frac{1}{3}$ of his trading cards to Tierra. If Tierra had 96 more trading cards than Patrick in the end, how many trading cards did she have in the beginning?

47. Julia's age is $\frac{1}{5}$ of her grandmother's age. 5 years ago, her grandmother was 60 years old.

(a) Write Julia's age 5 years ago as a ratio of her grandmother's age 5 years ago.

(b) In how many years will Julia's age be $\frac{2}{5}$ of her grandmother's present age?

48. The ratio of Aaron's money to David's money was 7 : 4. When Aaron spent \$6 and David's mother gave David another \$36, they had the same amount of money. How much did each of them have in the beginning?