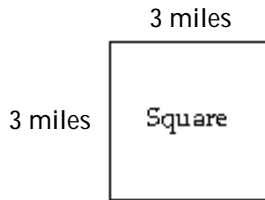


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the perimeter.

1)



- A) 12 mi. B) 15 mi. C) 9 mi. D) 6 mi.

Subtract.

2) $90,000 - 14,879$

- A) 94,879 B) 75,121 C) 96,231 D) 84,879

Divide.

3) $1381 \div 3$

- A) 460 B) 460 R1 C) 461 D) 460 R2

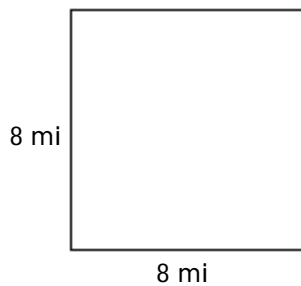
Simplify.

4) $\frac{32(14 - 11) - 12}{3^2 - 3}$

- A) 17 B) 14 C) 16 D) 28

Find the area of the square.

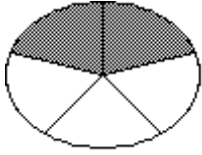
5)



- A) 32 sq mi B) 67 sq mi C) 60 sq mi D) 64 sq mi

Write a fraction to represent the shaded part of the figure.

6)



A) $\frac{3}{2}$

B) $\frac{5}{2}$

C) $\frac{2}{5}$

D) $\frac{2}{3}$

Find the prime factorization of the number. Write any repeated factors using exponents.

7) 90

A) $2 \cdot 3^2 \cdot 5$

B) $2^2 \cdot 3^2 \cdot 5$

C) $10 \cdot 3^2$

D) $2 \cdot 3 \cdot 5$

Write the fraction in simplest form.

8) $\frac{24}{28}$

A) $\frac{6}{7}$

B) $\frac{6}{4}$

C) $\frac{24}{28}$

D) $\frac{4}{7}$

Multiply. Write the answer in simplest form.

9) $\frac{3}{5} \cdot \frac{1}{6} \cdot \frac{1}{6}$

A) $\frac{1}{17}$

B) $\frac{3}{5}$

C) $\frac{1}{60}$

D) $\frac{1}{20}$

Divide. Write the answer in simplest form.

10) $\frac{3}{20} \div \frac{5}{12}$

A) $\frac{8}{25}$

B) $\frac{9}{23}$

C) $\frac{9}{25}$

D) $\frac{7}{25}$

Subtract and simplify.

11) $\frac{7}{8} - \frac{3}{8}$

A) $\frac{1}{4}$

B) $\frac{2}{3}$

C) $\frac{1}{2}$

D) $\frac{5}{8}$

Write the fraction as an equivalent fraction with the given denominator.

12) $\frac{2}{3} = \frac{\quad}{24}$

A) $\frac{8}{24}$

B) $\frac{16}{24}$

C) $\frac{6}{24}$

D) $\frac{2}{24}$

Evaluate.

13) $\left(\frac{3}{4}\right)^2 \cdot \left(\frac{2}{3}\right)^3$

A) $\frac{1}{6}$

B) $\frac{17}{43}$

C) 6

D) 3

Insert < or > to form a true statement.

14) $\frac{5}{12}$ $\frac{3}{6}$

A) >

B) <

Use the order of operations to simplify the expression.

15) $\left(\frac{8}{9}\right)^2 \div \left(\frac{8}{9} - \frac{1}{27}\right)$

A) $\frac{64}{69}$

B) $\frac{24}{23}$

C) $\frac{1472}{2187}$

D) $\frac{8}{69}$

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve.

16) Isabelle went shopping for holiday presents for her family. She spent \$350 on Monday, \$396 on Tuesday, and \$242 on Wednesday. What is the total amount of money that she spent on gifts?

17) In a distant solar system the diameter of planet A is 6 times as great as the diameter of planet B. The diameter of planet B is 857 miles. Find the diameter of planet A.

Solve. Write the answer in simplest form.

- 18) A recipe calls for $\frac{2}{3}$ of a pound of sausage. How much sausage should be used if only $\frac{1}{2}$ of the recipe is being made?

Solve. Write the answer in simplest form.

- 19) Marty jogged $\frac{3}{10}$ of a mile from home and then rested. Then he continued jogging another $\frac{5}{10}$ of a mile until he discovered his watch had fallen off. He walked back along the same path for $\frac{6}{10}$ of a mile until he found his watch. Find how far he was from his starting point.

Solve.

- 20) Jeffery has two packages. One weighs $3\frac{1}{2}$ ounces, and the other weighs $\frac{2}{9}$ ounces. What is the total weight of the two packages?