

Write the number in words: 105,081,243

Subtract without using a calculator: $10,093 - 7,129$

Add without using a calculator: $111,999 + 20 + 889,001$

Multiply without using a calculator: $31,582 \times 109$

Divide without using a calculator: $24,659 \div 23$

Evaluate: a.) $\frac{528}{528}$

b.) $\frac{13}{0}$

c.) $\frac{0}{27}$

Solve and check: $25x = 625$

Solve and check: $307 = 82 + t$

Benny usually earns \$105 for working a full day. How much does he receive for working $\frac{2}{7}$ of a day?

Simplify: $\frac{3}{8}^2 \div \frac{6}{7} \frac{2}{9} \div 5$

Write the prime factorization of 2100.

It takes Amanda 6 hr to paint the trim on a house. She can work only 8 hr per day because she is taking 18 hr of classes. How many days will it take her to finish painting the trim?

Grandma Jordan left $\frac{2}{3}$ of her $\frac{7}{8}$ acre apple farm to Karl. Karl gave $\frac{1}{4}$ of his share to his oldest daughter, Irene. How much land did Irene receive?

At a particular community college $\frac{5}{8}$ of the students are older than 20, and $\frac{2}{3}$ of the students are women. What fraction of the students are men that are 20 years old or younger?

Out of 15 free-throws you make 9 of them. How many would you expect to make if you attempted 75 free-throws?

Multiply and Simplify: $\frac{30}{63} \frac{14}{25}$

Solve and check. $\frac{2}{5}t = \frac{7}{10}$

Solve and check: $\frac{n}{12} = 9$

You are on a boat trip from Juneau to Hoonah. After traveling 36 miles you are $\frac{4}{5}$ of the way there. How far is the trip from Juneau to Hoonah?

A worm travels $\frac{1}{16}$ of a mile each day. How long would it take the worm to travel $\frac{7}{8}$ of a mile?

Write the number in words: 22,005,310

Subtract without using a calculator: $9,052 - 2,568$

Add without using a calculator: $123,002 + 57,829 + 14,987$

Multiply without using a calculator: $2,582 \times 206$

Divide without using a calculator: $28,057 \div 35$

Evaluate: a.) $\frac{103}{1}$

b.) $\frac{0}{582}$

c.) $\frac{0}{0}$

Solve and check: $955 = 5t$

Solve and check: $213 + x = 57$

There are 5,280 feet in a mile. If you ran 5 miles this morning, how many feet did you run?

Simplify: $80 - 2^4 \cdot 15 \div (7 \cdot 5 - 45 \div 3)$

Write the prime factorization of 720.

Of every 1000 people who attend movies, 340 are in the 18 – 24 age group. What is the ratio of moviegoers in the 18 – 24 age group to all moviegoers?

One of 39 high school football players plays college football. One of 39 college players plays professional football. What fractional part of high school players play professional football?

A basement floor is being covered with carpet. An area $\frac{7}{8}$ of the length and $\frac{3}{4}$ of the width is covered by lunch time. What fraction of the floor has been completed?

Sociologists estimate that 3 of 20 people are left-handed. In a crowd of 460 people, how many would you expect to be left-handed?

Multiply and Simplify: $\frac{21}{15} \cdot \frac{5}{14}$

Divide and Simplify: $\frac{5}{18} \div \frac{15}{36}$

Solve and check: $y \frac{3}{4} = 180$

A tank had 20 gal of gasoline in it when it was $\frac{4}{5}$ full. How much could it hold altogether?

A road crew repaves $\frac{1}{10}$ mi of road each day. How long will it take the crew to repave a $\frac{7}{8}$ mi stretch of road?

Write the number in words: 16,120,035

Subtract without using a calculator: $7,840 - 3,027$

Add without using a calculator: $42,487 + 83,141 + 36,712$

Multiply without using a calculator: $3,482 \times 104$

Divide without using a calculator: $17,067 \div 28$

Evaluate: a.) $\frac{23}{23}$

b.) $\frac{0}{218}$

c.) $\frac{57}{0}$

Solve and check: $741 = 3t$

Solve and check: $567 + x = 902$

There are 60 minutes in an hour and 24 hours in a day. How many minutes are there in a day?

Simplify: $(19 - 2^4)^5 - (141 \div 47)^2$

Write the prime factorization of 140.

A 2000 Oldsmobile Intrigue will go 448 mi on 16 gal of gasoline. What is the ratio of:

- miles driven to gasoline burned?
- gasoline burned to miles driven?

It takes $\frac{2}{3}$ yd of ribbon to make a bow. How much ribbon is needed to make 5 bows?

A basement floor is being covered with carpet. An area $\frac{7}{8}$ of the length and $\frac{3}{4}$ of the width is covered by lunch time. What fraction of the floor has been completed?

Sociologists estimate that 3 of 20 people are left-handed. In a crowd of 460 people, how many would you expect to be left-handed?

Multiply and Simplify: $\frac{17}{18} \cdot \frac{3}{5}$

Divide and Simplify: $\frac{6}{13} \div \frac{3}{26}$

Solve and check: $y \cdot \frac{5}{6} = 120$

A tank had 20 gal of gasoline in it when it was $\frac{4}{5}$ full. How much could it hold altogether?

A road crew repaves $\frac{1}{12}$ mi of road each day. How long will it take the crew to repave a $\frac{3}{4}$ mi stretch of road?