The T Shirt Shop
At the store, Bailey bought 3 T Shirts and 2 pairs of socks. She paid a total of $30. If the socks were $3 a pair, how much was each T Shirt?

Jumping Penguins
7 penguins are on the ice. 4 penguins jump in the water. How many penguins are left on the ice?

Computers : Students
A local middle school has 47 computers and 174 students. What is the number of students per computer at the school? Write your answer as both a mixed number in simplest form and a decimal rounded to the nearest tenth.

Football Season
In the 2008 season, the Florida Marlins won 84 out of 162 games. What was the ratio of wins to total games? Write your answer as both a fraction in simplest form and a decimal rounded to the nearest thousandth.

Computer Club
Last year the Computer Club had $300 in its savings account. Each month, the members contributed an additional total of $24.
- Write an equation representing the balance in the account in any month.
- Find the balance after four months.

LaJuan’s Earnings
Each week, LaJuan earns $8 per hour plus a bonus of $20 if he works 40 hours.
- Write an equation representing the earnings rate for LaJuan if he works for more than 40 hours.
- Find the total salary for one week if LaJuan worked 43 hours.
The Soccer Team
The soccer team wants to order T Shirts. The T Shirts cost $20 each plus a shipping fee of $8.
- Write an equation representing the cost of ordering T Shirts.
- If there are 18 students on the soccer team, how much do they have to pay for the T Shirts?

Arun’s Height
Arun has been growing at an average rate of six centimetres per year since Year Five when he measured 125 centimetres.
- Write an expression for Arun’s height for any year.
- What is Arun’s height in Year Eight?

Mr Winkle’s Music Collection
Mr Winkle downloaded 34 more songs than Mrs Winkle downloaded. Together they downloaded 220 songs. How many songs did each download?

Julio’s Pumpkins
Julio bought a total of 20 medium and large pumpkins. If he spent $53 and bought 6 more large pumpkins as medium pumpkins, how many large pumpkins did he buy?

Pumpkins
Large - $3
Medium - $2
Small - $1

The Joint Concert
The seventh and eighth grade bands held a joint concert. Together there were 188 band members. If the eighth grade band is 3 times as big as the seventh grade band, how big is the eighth grade band?
Interpret the solution.

Amal’s Work Hours
Amal worked a total of 30 hours last week. On Saturday and Sunday he worked 5 times as many hours than he worked the rest of the week. How many hours did he work the rest of the week?

Rainfall
During the months of August and September the total rainfall was 18.5 centimetres inches. If the rainfall in August was 2.5 centimetres more than the amount of rainfall in September, how much rain fell in each month?
Mildred’s Board
Mildred cut a 9 metre board into two pieces. The long piece is twice as long as the short one. How long is the short piece?

Walter’s Age
Walter lived 2 years longer than his brother Martin. Walter was 79 at the time of his death. Write and solve an addition equation to find Martin’s age at the time of his death.

Florida’s Parliament
Florida has 28 fewer members in the House of Representatives than California. Florida has 25 representatives. Write and solve a subtraction equation to find the number of California representatives.

The Withdrawal
After you withdraw $40 from your checking account, the balance is $287. Write and solve a subtraction equation to find your balance before this withdrawal.

High Temperatures
After the temperature had risen 12°C, the temperature was 7°C. Write and solve an addition equation to find the starting temperature.

Louisiana’s Elevation
The lowest point in Louisiana is 543 metres lower than the highest point in Louisiana. The elevation of the lowest point is -8 metres. Write and solve a subtraction equation to find the elevation of the highest point in Louisiana.

Population Changes
In 2008, the estimated population of Honduras was the estimated population of Haiti decreased by 7,639,327. The population of Honduras was 1,285,226. Write and solve a subtraction equation to find the population of Haiti.

Felipe’s Payment
Felipe earns $9 per hour for helping his grandmother with her yard work. Write and solve a multiplication equation to find how many hours he must help his grandmother in order to earn $54.

Granola Bars
Granola bars are on sale for $0.50 each. If Brad paid $5 for granola bars, write and solve a multiplication equation to find how many bars he bought.
Jasmine’s Exercise
Jasmine jogs 3 kilometres each day. Write and solve a multiplication equation to find how many days it will take her to jog 57 kilometres.

The Rollins’ Road Trip
On a trip, the Rollins family drove at an average rate of 62 kilometres per hour. Write and solve a multiplication equation to find how long it took them to drive 558 kilometres.

Robot Travel
The smallest robot can travel 20 centimetres per minute through a pipe. Write and solve a multiplication equation to find how long it will take this robot to travel through 10 metres of pipe.

Nate’s Cash
Nate withdraws $40 from his checking account each day. Write and solve a multiplication equation to find how long it will take him to withdraw $680.

Bart’s Age
The product of Bart’s age and 26 is 338. Write and solve a multiplication equation to find Bart’s age.

Population Decrease
The population of a small town is increasing at a rate of 325 people per year. Write and solve a multiplication equation to find how long it will take the population to increase by 6,825.

Carlos’ Screen Door
Carlos is building a screen door. The height of the door is 1 metre more than twice its width. What is the width of the door if it is 7 metres high?

Rectangle Perimeter
A rectangle has a width of 6 metres and a perimeter of 26 metres. What is the length of the rectangle?

Ella’s Swimming Lessons
Ella swims four times a week at her Club’s pool. She swims the same number of laps on Monday, Wednesday, and Friday, and 15 laps on Saturday. She swims a total of 51 laps each week. How many laps does she swim on Monday?
Drew's CDs
While at the music store, Drew bought 5 CDs, all at the same price. The tax on his purchase was $6, and the total was $61. What was the price of each CD?

Koko’s Assignment
Over the weekend, Koko spent 2 hours on an assignment, and she spent equal amounts of time studying for 4 exams for a total of 16 hours. How much time did she spend studying for each exam?

Bananas for Sale
At the market, Meyer buys a bunch of bananas for $0.65 per kilogram and a frozen pizza for $4.99. The total for his purchase was $6.94. How many kilograms of bananas did Meyer buy?

Laura's Patio
Laura is making a patio in her backyard using paving stones. She buys 44 paving stones and a flowerpot worth $7 for a total of $73. How much did each paving stone cost?

The Taxi Service
A taxi service charges you $1.50 plus $0.60 per minute for a trip to the airport. The distance to the airport is 10 miles, and the total charge is $13.50. How many minutes did the ride to the airport take?

Michael’s Drive
Michael is driving from Lakeview to Dodge City, a distance of more than 250 miles. After driving 60 kilometres, Michael stops for gas. Write an equation to find how much farther Michael has to drive to reach Dodge City.

Dinner and a Movie
Kelvin and Marsha are going to dinner and a movie this evening. Kelvin wants to have at least $70 cash in his wallet. He currently has $10. Write and solve an inequality to find how much cash Kelvin should withdraw from the bank.

The Spartan Club
The charter for the Spartan Club limits the membership to 85. Currently, the club has 47 members. Write and solve an inequality to find how many more members can be recruited.
Akira’s Height
Akira hopes that he will someday be more than 160 centimetres tall. He is currently 95 centimetres tall. Write and solve an equation to find how much more Akira must grow to fulfil his wish.

Jamie’s CD Factory
Jamie is preparing to burn a music CD. The CD holds at most 70 minutes of music. Jamie has 52 minutes of music already selected. Write an equation to find how many more minutes of music Jamie can select.

Dario’s Viewing Habits
Dario limits his TV watching to no more than 11 hours a week. This week, he has already watched 6 hours of TV. Write and solve an inequality to find how much more time Dario can spend watching TV this week.

Petrol Purchases
At the petrol station, Elena bought a quart of oil for $1.50, and she filled her car with petrol. Her total was less than $20. Write an equation to find how much she spent on petrol.

Peter’s Essay
Peter must write an essay with more than 500 words for his English class. So far, he has written 245 words. Write and solve an inequality to find how many more words Peter needs to write for his essay.

Mystery Numbers
The sum of two numbers is equal to 15. The product of the numbers is 44. What are the two numbers?

Shopping Centre Visit
After a visit to the Shopping Centre, Ray and Mary counted their money to see how much they had left. Ray said, “If I had $8 more, I would have as much as you.” Mary replied, “If I had $8 more, I would have twice as much as you.” How much money does each person have?

Postcards Packs
Postcards come in packages of 12 and stamps come in packages of 20. How many of each type of package will Jessica need to buy in order to send 300 postcards with no stamps or postcards left over?

Larry’s Envelopes
Larry can stuff 150 envelopes in one hour. Harold can stuff 225 envelopes in one hour. About how long will it take them to stuff 10,000 envelopes?
**Brick Laying**
Alexy can lay 40 bricks in one hour. Vashawn can lay 30 bricks in one hour. Jesse can lay 20 bricks in one hour. About how long will it them to build a wall that uses 900 bricks?

**Mike’s Fitness**
Mike’s Fitness Centre charges $30 per month for a membership. All Day Fitness Club charges $22 per month plus an $80 initiation fee for a membership. After how many months will the total amount paid to the two fitness clubs be the same?

**Shipping Charges**
The Lone Star Shipping Company charges $14 plus $2 a kilogram to ship an overnight package. Discount Shipping Company charges $20 plus $1.50 a kilogram to ship an overnight package. For what weight is the charge the same for the two companies?

**Arcade Games**
Deanna and Lise are playing games at the Arcade. Deanna started with $15, and the machine she is playing costs $0.75 per game. Lise started with $13, and her machine costs $0.50 per game. After how many games will the two girls have the same amount of money remaining?

**Guest Charges**
The Wayside Hotel charges its guests $1 plus $0.80 per minute for long distance calls. Across the street, the Blue Sky Hotel charges its guests $2 plus $0.75 per minute for long distance calls. Find the length of a call for which the two hotels charge the same amount.

**Credits**
Duke is a part time student at Horizon Community College. He currently has 22 credits, and he plans to take 6 credits per semester until he is finished. Duke’s friend Kila is also a student at the college. She has 4 credits and plans to take 12 credits per semester. After how many semesters will Duke and Kila have the same number of credits?

**Present Purchases**
Torrance is buying presents for members of his family. He wants to spend $10 less on his brother than he spends on his sister, and six dollars more than twice the amount he spends on his sister on his mother. If Torrance has $100 to spend, how much does he intend to spend on his brother?
**Pasha's Thinking**
Pasha is thinking of a number such that when twice the number is added to three times one more than the number she gets the same result as when she multiplies four times one less than the number. What number is Pasha thinking about?

**Colby’s Work Hours**
Colby worked three more hours on Tuesday than he did on Monday. On Wednesday, he worked one hour more than twice the number of hours that he worked on Monday. If the total number of hours is two more than five times the number of hours worked on Monday, how many hours did he work on Monday?

**Carmen’s Money**
Carmen borrowed money from her sister. Each month she makes four payments, with an average payment of no more than $200. This month she has already paid her sister $225, $245, and $235. What is the maximum amount she can pay for the fourth payment?

**Chris’ Savings**
Chris is saving money to buy a new DVD. On Sunday, he has $8 in his bank. Chris is going to help his dad rake leaves and put them in bags. He will earn $2 each day for raking one bag of leaves. Chris rakes one bag of leaves each day from Monday through Friday.

- How much money will Chris have on Friday night?
- The DVD is on sale for $15.99 at Best Buy this week. Will Chris have enough money to buy the DVD on Saturday?

**Morgan’s Money**
Morgan is saving money to buy a new CD. On Sunday, she has $4 in her bank. Morgan is going to feed and walk the neighbour’s dog each day from Monday through Friday while they are away on vacation. She will earn $2 each day for taking care of the dog. The neighbours will pay her when they get home on Friday night.

- How much money will Morgan have after the neighbours pay her on Friday night?
- The new CD is on sale for $12.99 at Target this week.
- Will Morgan have enough money to buy the CD on Saturday morning?
New Year's Eve
It is New Year’s Eve, and the MacKenzie family have all met up for a celebration. Traditionally, at exactly midnight, all family members shake hands with all the other family members. There are 30 members of the MacKenzie family at the celebration this year.

Bianca, the teenage daughter, is desperate to leave the family celebration to go out partying with her friends and wonders how long it is going to take to shake all the hands. She knows she cannot leave until everyone has finished shaking hands. She estimates that each handshake will take 4 seconds.

- How many handshakes will be needed for all the family to shake hands once with each other?
- How many seconds will it take for all of the MacKenzie family to shake hands?
- What time will it be when Bianca finishes shaking hands with the whole family?

Linda's Buys
Linda bought 6 pencils for $1. Jason bought a notebook for $2. How much more did Jason spend than Linda?

Luis’ Allowance
Luis earns an allowance of $5.00 each week. His friend John, who has saved $20.00, earns $7.50. What is the difference between their allowances?

Shera’s Stamps
Shera has 56 stamps in her stamp collection. She buys 12 more stamps and 2 stamp books. How many stamps does Shera have altogether?

The Pizza Party
At a pizza party, Doug ate 6 slices of pepperoni pizza and 4 slices of cheese pizza. Luc ate 2 slices of pepperoni pizza. How many slices of pizza did Luc and Doug eat in all?

Chen’s Football Team
Chen’s football team, called the Tigers, has 20 players and scored 42 points in the first game of the season. The other team scored 7 points. How many more points did Chen’s team score?
The Lunch Date
Felice and Hana went to lunch together. Felice’s lunch cost $4.00 and Hana’s lunch cost $6.50. Later, Felice bought a bag of candy for $2.50. What is the sum of their lunches?

Julie’s Marbles
Julie had 56 marbles. She gave 10 cat’s eye marbles to her younger sister, who has 21 marbles. How many marbles did Julie have left?

Tony’s Concert
Tony plays 3 concerts in a month. Each is the same length. He plays for a total of 2 hours 15 minutes. How long is each concert?

Tony’s Music Lessons
Tony takes 2 music lessons each week, for a total of 1 hour 20 minutes. Each is the same length. How long is each lesson?

Travelling to Music
It takes Tony 15 minutes to get to his music lessons and the same amount of time to get home. How much time does Tony spend traveling to and from his lessons each week?

Darius’ Dog Treats
Darius baked 40 treats for the 10 dogs staying at his kennel this week. He gave each dog the same number of treats. How many treats did Darius give each dog?

Jet Travel
A jet took off from Syracuse, New York, and travelled 3,060 kilometres to California. If the trip took five hours, what was the average speed of the jet?

Mrs Sheppard’s Books
Mrs Sheppard bought 16 books. Each book cost $5. Which number sentence could be used to find the total cost of the books?

The Basketball Tournament
Steve read that 128 players entered the basketball tournament in his town. The organisers split the players into 16 teams, with an equal number of players on each team. What number sentence can be used to determine P, the number of players on each team?