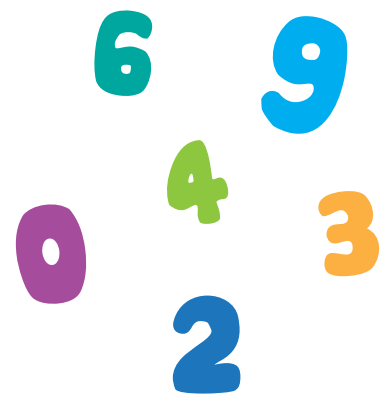


1. Shinji is 182 cm tall. Jane is 169 cm tall. If Brian is 15 cm taller than Jane, what is the combined height of all three people?



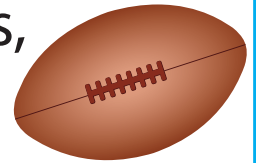
2. What is the difference between the largest and smallest number that can be made with the digits 6, 4, 9, 3, 0, 2?



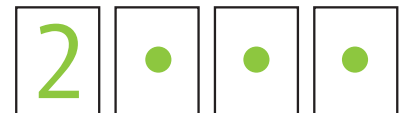
3. Janine wanted to buy a new laptop. The laptop costs \$1299, but has been reduced by \$249. If Janine has \$3423 in savings, how much money will she have left after she purchases the discounted laptop?



4. The red team played five games of football. They lost the first game 1-3. They won the second and third games 2-1 and 4-0 respectively. The fourth game was a 2-2 draw. If they scored 12 goals and conceded 7 over the five games, what was the score of the last game?



5. Mohammad has forgotten his password! He knows the first number and had written down sums to calculate the other three numbers. The third number equals the second number plus the first. The fourth number equals the third number minus 2. The second number equals the first number plus 4. If the first number is 2, what is the password?



6. In a game of darts, my opponent had scored 321 points. I was 126 points behind my opponent and then scored the following points: 60, 6, 5, 3, 18, 5, 14, 22. Am I winning or losing?



7. Neil decided to train for cross-country. On the first day of training he ran 3.2 km. On the second day he ran 5.4 km. On the 3rd and 4th day he ran a total of 8.9 km. If he ran 22 km in total after five days of training, how far did he run on the fifth day?



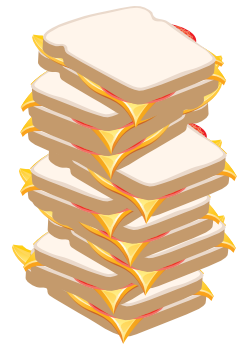
8. There were 93 people on the high-speed train. 23 got off at the first station and 48 got off at the third station. If there are 5 people left on the train at the fourth station, how many got off at the second station?



9. A shop buys skateboards for \$83 and sells them for \$159.95. If they have a sale and sell them for \$20 less, what is the profit on each skateboard sold?



**10.** How many sandwiches were sold in total? 15 chicken were sold. Vegetarian sold 8 less than chicken. Beef was the most popular sandwich and sold 14 more than vegetarian.



**11.** A total of 96 239 fans attended the grand final of the World Cup. If 36 829 supported Germany and 48 293 supported Argentina, how many neutral supporters were in the stadium?



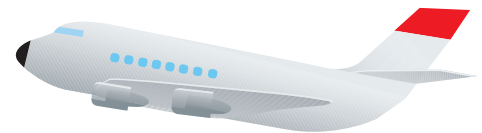
**12.** Susan loves sushi! She ordered a plate with 4 chicken and avocado rolls, 6 California rolls and 3 prawn rolls. Her second plate had two less of each. How many sushi rolls did she have in total?



**13.** Kevin is great at basketball. His team scored 24 points in the first quarter, 32 in the second, 19 in the third and 25 in the fourth. If his team mates scored 54 points, how many points did Kevin score?



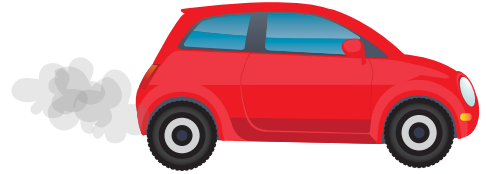
**14.** Jill's family fly 8 432 km to arrive at their favourite holiday destination. They are in mid-air and have flown 6 212 km. If the plane's tank of fuel can allow it to fly for 12 000 km, how much further could they fly from their current location?



**15.** The class had their biggest exam of the year. The first half of the exam took 1 hour 40 minutes. They were allowed a 30 minute break before beginning the second part of the exam. If the exam began at 11.00 am and finished at 2.00 pm, how long did the second half of the exam take?



**16.** The car's tank had 8.2 L of fuel remaining. It used 1.8 L driving to the supermarket and 2.4 L driving to the beach. If it needs 6 L to travel to the petrol station, will it make it without running out of fuel?



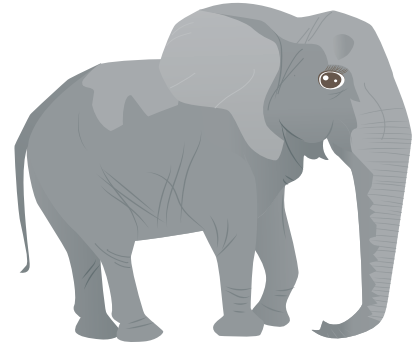
**17.** Scott wanted to get to work at 8.00 am sharp. He stops at the shops for 13 minutes, after walking for 19 minutes. He then catches a bus for 32 minutes, then walks an additional 6 minutes. What time does he leave home?



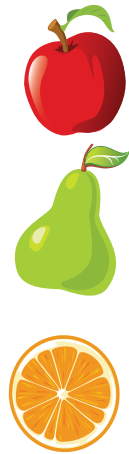
**18.** The book stand sold 678 magazines in the first month and 46 less than that in the second month. How many magazines did they sell in these two months?



**19.** There are 88 elephants in the herd. 36 are male adults and 23 are children of which 10 are male. How many females are there in the herd?



**20.** On Monday, Jose had 198 apples, 139 oranges, and 55 pears available at his shop. That day, he sold 15 apples, 22 oranges, and 18 pears. How many pieces of fruit were remaining on Tuesday?



# Addition and Subtraction (Middle Grades)

## Answers

- $169 \text{ cm} + 15 \text{ cm} = 184 \text{ cm}$  (Brian's height)  
 $182 \text{ cm} + 169 \text{ cm} + 184 \text{ cm} = 535 \text{ cm}$   
The combined height of Shinji, Jane and Brian is **535 cm** or **5.35 m**.
- Largest number = 964 320  
Smallest number = 203 469  
 $964\,320 - 203\,469 = 760\,851$   
The difference between the largest number and the smallest number is **760 851**.
- $\$1299 - \$249 = \$1050$   
 $\$3423 - \$1050 = \$2373$   
Janine will have **\\$2373** left once she purchases the discounted laptop.
- $1 + 2 + 4 + 2 = 9$  (Goals scored in the first four games)  
 $3 + 1 + 0 + 2 = 6$  (Goals conceded in the first four games)  
 $12 - 9 = 3$  (Goals scored in the last game)  
 $7 - 6 = 1$  (Goals conceded in the last game)  
The red team won the last game. The score was **3-1**.
- The first number is 2.  
 $2 + 4 = 6$  (This is the second number)  
 $2 + 6 = 8$  (This is the third number)  
 $8 - 2 = 6$  (This is the fourth number)  
Muhammed's password is **2686**.
- $321 - 126 = 195$  (My current score)  
 $195 + 60 + 6 + 5 + 3 + 18 + 5 + 14 + 22 = 328$   
I am **winning**.
- $3.2 \text{ km} + 5.4 \text{ km} + 8.9 \text{ km} = 17.5 \text{ km}$   
 $22 \text{ km} - 17.5 \text{ km} = 4.5 \text{ km}$   
Neil ran **4.5 km** on the fifth day of training.



8.  $93 - 23 = 70$

$70 - 48 = 22$

$22 - 5 = 17$

**17 people** got off the train at the second station.

9.  $\$159.95 - \$83 = \$76.95$

$\$76.95 - \$20 = \$56.95$

The profit on each skateboard sold is **\\$56.95**.

10. 15 (Chicken)

$15 - 8 = 7$  (Vegetarian)

$7 + 14 = 21$  (Beef)

$15 + 7 + 21 = 43$

**43 sandwiches** were sold in total.

11.  $36\,829 + 48\,293 = 85\,122$  (Germany and Argentina supporters)

$96\,239 - 85\,122 = 11\,117$  (Neutral supporters)

There were **11 117 neutral supporters** in the stadium.

12.  $4 + 6 + 3 = 13$  (First plate of sushi)

$2 + 4 + 1 = 7$  (Second plate of sushi)

$13 + 7 = 20$

Susan ate **20 sushi rolls** in total.

13.  $24 + 32 + 19 + 25 = 100$

$100 - 54 = 46$

Kevin scored **46 points**.

14.  $12\,000\text{ km} - 6212\text{ km} = 5788\text{ km}$

Jill's family could fly a further **5788 km** from their current location.

15.  $11:00\text{ am} + 1\text{ hr } 40\text{ mins} = 12:40\text{ pm}$

$12:40\text{ pm} + 30\text{ mins} = 1:10\text{ pm}$

$2:00\text{ pm} - 1:10\text{ pm} = 50\text{ mins}$

The second half of the exam took **50 minutes**.

16.  $8.2\text{ L} - 1.8\text{ L} - 2.4\text{ L} = 4\text{ L}$

$4\text{ L} - 6\text{ L} = -2\text{ L}$

The car **will not** make it to the petrol station without running out of fuel.

17.  $13 \text{ mins} + 19 \text{ mins} + 32 \text{ mins} + 6 \text{ mins} = 70 \text{ mins}$

$8:00 \text{ am} - 70 \text{ mins} = 6:50 \text{ am}$

Scott leaves home at **6:50 am**.

18.  $678 - 46 = 632$

$678 + 632 = 1310$

The book stand sold **1310 magazines** in these two months.

19.  $36 + 10 = 46$

$88 - 46 = 42$

There are **42 female elephants** in the herd.

20.  $198 + 139 + 55 = 392$

$15 + 22 + 18 = 55$

$392 - 55 = 337$

There were **337 pieces of fruit** available on Tuesday.