

Maths. fluency

1. Which calculation is incorrect?

A.

| | | | | |
|-------|---------------------------|---------------------------|----------------|---|
| | ⁵ 6 | ³ 4 | ¹ 0 | 9 |
| - | 4 | 5 | 3 | 7 |
| <hr/> | | | | |
| | 1 | 8 | 7 | 2 |
| <hr/> | | | | |
| | | | | |

B.

| | | | | |
|-------|-------|-------|-------|-------|
| | Th | H | T | O |
| | ●●●●● | ●●●●● | ●●●●● | ●●●●● |
| - | ●●●●● | ●●●●● | ●●●●● | ●●●●● |
| <hr/> | | | | |
| | | ●●●●● | ●●●●● | ●●●●● |
| <hr/> | | | | |
| | | | | |

2. Complete the calculations and match them to the correct answer.

A.

| | | | | |
|-------|---|---|---|---|
| | | | | |
| | 4 | 0 | 6 | 6 |
| - | | 6 | 9 | 5 |
| <hr/> | | | | |
| | | | | |

B.

| | | | | |
|-------|---|---|---|---|
| | | | | |
| | 7 | 5 | 0 | 4 |
| - | 2 | 6 | 8 | 1 |
| <hr/> | | | | |
| | | | | |

C.

| | | | | |
|-------|---|---|---|---|
| | | | | |
| | 5 | 3 | 6 | 1 |
| - | 2 | 0 | 7 | 9 |
| <hr/> | | | | |
| | | | | |

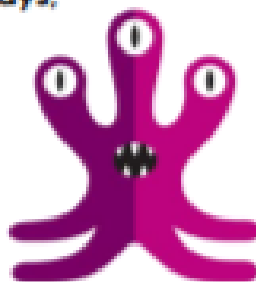
4,823

3,282

3,371

3. Trovak needs a total of 8,405 litres of fuel to reach his planet. He already has 3,686 litres in his spaceship.

Trovak says,



I only need 4,816 litres more.

| | | | | |
|-------|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| - | | | | |
| <hr/> | | | | |
| | | | | |

Is he correct? Use column subtraction to prove your answer.

Maths. problem solving

1. Solve the calculation.

$$2,405 - 1,205 = \boxed{}$$

Which method did you use?

2. Show three different methods to solve the calculation below.

$$5,293 - 1,959$$

3. There are 3,457 cars in the car park. 1,046 cars leave the car park. How many cars remain? Use an efficient method to solve the word problem.

4. Write each subtraction next to method you think is the most efficient in the table below.

$$7,835 - 6,804$$

$$2,347 - 1,847$$

$$8,394 - 3,023$$

| | |
|---------------|--|
| Counting On | |
| Column Method | |
| Partitioning | |

5. Check the calculation below.

$$\begin{array}{r} 8 \ 9 \ 7 \ 0 \\ - 7 \ 5 \ 7 \ 0 \\ \hline 1 \ 4 \ 0 \ 0 \end{array}$$

Is this method efficient? Create another calculation where the column method is efficient.

6. Do you agree with Alan? Explain your reasoning.



You should use the column method to check any subtraction.

7. Ivy and Ted are solving $7,283 - 5,179$.

Ivy



I'll add 1 to both then partition and subtract.

Ted



I'm going to count on using a number line.

Complete $7,283 - 5,179$ using both strategies. Which was quickest? Why?

Maths. reasoning

George and Samira are discussing how they would check the following calculation using the inverse. Who do you agree with? Explain why.

| | | | | |
|---|---|---|---|---|
| | 8 | 9 | 7 | 6 |
| - | 2 | 4 | 5 | 5 |
| | 6 | 5 | 2 | 1 |

A. $6,521 + 2,455$

B. $8,976 - 6,521$

I would use A because the two smallest numbers must equal the larger one.



George

I would use B because I can find one of the parts by subtracting the other part from the whole.



Samira

How would you work this out? What skills do you need?

Amir and Tommy solve a problem.

When I subtract 546 from 3,232 my answer is 2,714



Amir



Tommy

When I subtract 546 from 3,232 my answer is 2,686

Who is correct?
Explain your reasoning.
Why is one of the answers wrong?

Amir has £1,000



He buys a scooter for £345 and a skateboard for £110

How much money does he have left?

Show 3 different methods of finding the answer.

Explain how you completed each one.

Which is the most effective method?