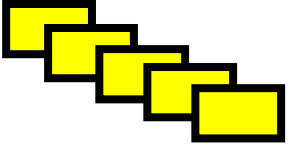


10.02.21


TBQ: Can I solve problems?



STEPS
TO
SUCCE
S

I can use my place value knowledge.
I can carry (addition) and exchange (subtraction).
I can explain how I reached my answer.
I can reason.

Activating Prior Knowledge



What do we mean by reasoning?

5 Minute Challenge!



Autumn Term

Order these numbers, smallest to largest

54, 92, 152,
145, 125

Last 1/2 term

$$\begin{array}{r} 526 \\ - 247 \\ \hline \\ \hline \end{array}$$

Last 1/2 term

$$\begin{array}{r} 537 \\ + 394 \\ \hline \\ \hline \end{array}$$

This 1/2 term

26 x 3 =

This 1/2 term

96 ÷ 6 =

$$6 \overline{) 96}$$

Last Week

$\frac{3}{10}$ of 50

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TBQ: Can I solve problems?

Mental
starter



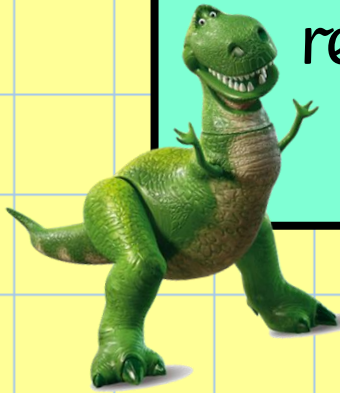
Go on TTRockstars and practise your times tables for 10 minutes.
How quickly can you answer the questions?



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TBQ: Can I solve problems?

Today, we will be using our addition and subtraction skills to answer reasoning and problem solving questions.



I'm going to show you how I'd tackle one question. After that, there are 3 slides - one for Mild, one for Hot and one for Flaming Hot! You don't have to just start on your chosen Chilli Challenge - see how many of the questions you can work your way through!

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TBQ: Can I solve problems?

Modelling

Sort the additions into the table.

No exchange	Exchange 10 ones	Exchange 10 tens

$375 + 18$

$456 + 72$

$912 + 79$

$910 + 79$

$456 + 27$

$342 + 35$

Can you write 2 more additions in each column?

Let me show you how I would work out the answer to this question.

No exchange

Exchange 10 ones

Exchange 10 tens

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TBQ: Can I solve problems?

Mild

Explain the mistake Jack has made.

$$\begin{array}{r} \text{H T O} \\ 231 \\ + 63 \\ \hline \\ \hline \end{array}$$

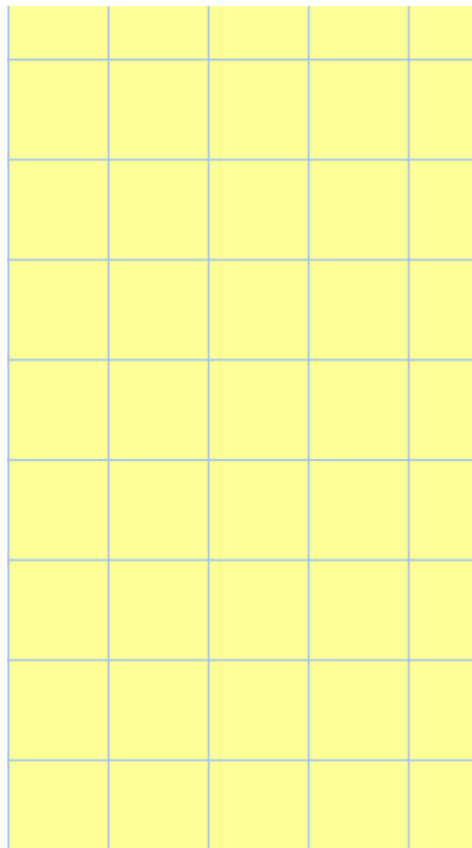
Find all the possible pairs of number that can complete the addition.

$$\begin{array}{r} \boxed{1} \boxed{} \\ + \boxed{2} \boxed{} \\ \hline \boxed{4} \boxed{2} \\ 1 \end{array}$$

How do you know you have found all the pairs?

What is the same about all the pairs of numbers?

Can you also correct his answer?



Eva

$$265 + 27 = 282$$

Here is her working out:

	2	6	5
+		2	7
	2	8	2

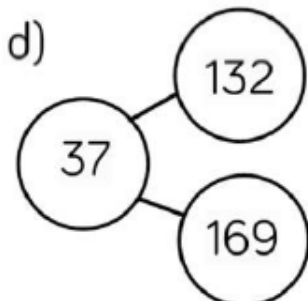
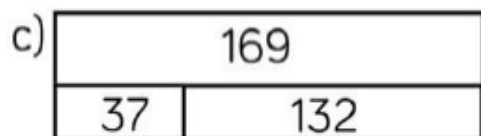
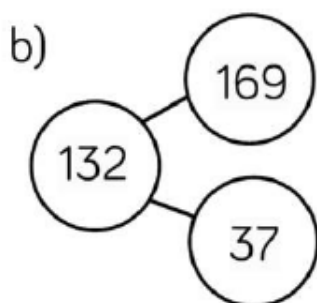
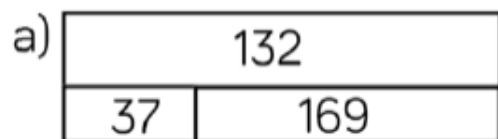
Is she correct? Explain why.

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TBQ: Can I solve problems?

Hot

Eva has 169 sweets in a jar.
She gives 37 sweets to Mo.
Which model represents this problem?



Rosie thinks $352 - 89 = 337$

	H	T	O
	3	5	2
-		8	9
	3	3	7

Is she correct?
Explain why.

Eva and Ron are playing a game.
Eva scores 351 points and Ron scores 478 points.
How many points do they score altogether?
How many more points does Ron score than Eva?

Eva and Ron play the game again.
Eva scores 281 points, Ron scores 60 less than Eva.
How many points do they score altogether?

10.02.21

TBQ: Can I solve problems?

Flaming Hot

Here are three digit cards.



Alex and Teddy are making 3-digit numbers using each card once.



I have made the greatest possible number.

Alex

I have made the smallest possible number.



Teddy

Work out the total of their two numbers.

Choose one 2-digit and one 3-digit number.

Write additions that have an exchange in the ones and the tens columns.

$$\begin{array}{r} 23 \\ 81 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 56 \\ \hline \end{array}$$

$$\begin{array}{r} 756 \\ 487 \\ \hline \end{array}$$

$$\begin{array}{r} 467 \\ 619 \\ \hline \end{array}$$

Use the digit cards to complete the calculation.



$$\begin{array}{r} \square \square \square \\ - \square \square \square \\ \hline \square \square \square \\ \hline \end{array}$$

The digits in the shaded boxes are odd.

Is there more than one answer?

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TBQ: Can I solve problems?

Problem
Solving

Roll a 1 to 6 die.

Fill in a box each time you roll.

$$\square\square\square + \square\square\square =$$

Can you make the total:

- An odd number
- An even number
- A multiple of 5
- The greatest possible number
- The smallest possible number

There's a link to an interactive die below if you don't have an actual die at home!

<https://www.online-stopwatch.com/online-dice/>

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TBQ: Can I solve problems?

How do you feel about your learning today?

