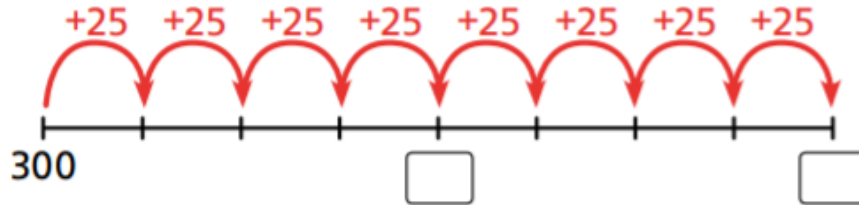
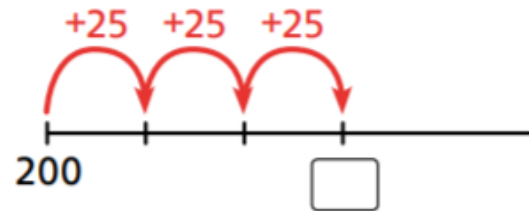
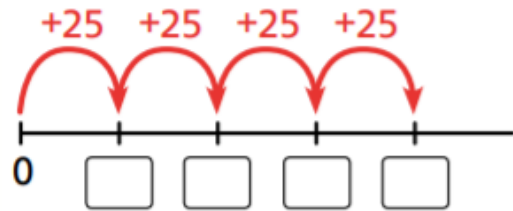


Monday

Power Up

Complete the number lines with the missing numbers.



How many jumps of 25 are there on the last number line? How many jumps of 50 would that make? How many jumps of 100 would that make?

How many 25s are there in each of these numbers?

150

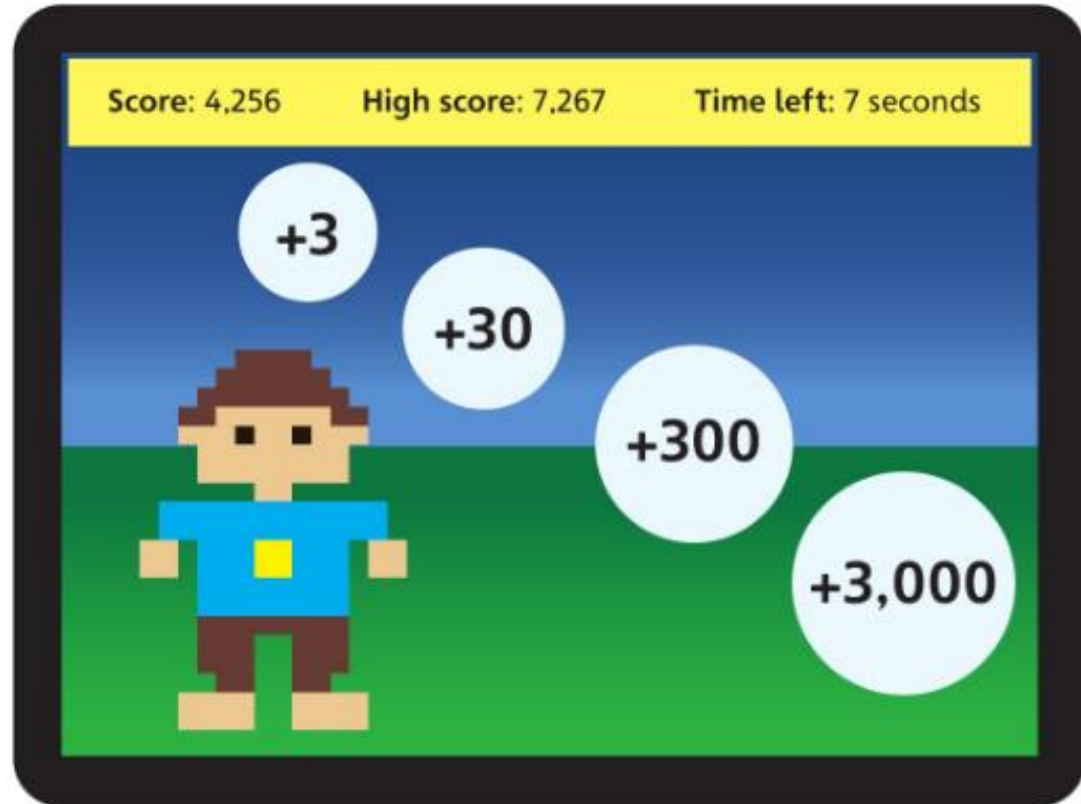
300

250

Adding and subtracting 1s, 10s, 100s, 1,000s



Discover



- I** a) Reena is playing this computer game.
She catches the +300 bonus bubble. What is her score now?
- b) She catches one more bonus bubble.
Could she beat the high score?

Share

a) Reena's score is 4,256. She scores 300 more points.

Th	H	T	O
●●●●	●●	●●●●●	●●●●●●●●
	●●●		●

$$4,256 + 300 = 4,556$$

Reena's score is 4,556 points.



I will check with place value counters.

b)

Th	H	T	O
●●●●	●●●●●	●●●●●	●●●●●●●●
			●
			●●●

$$4,556 + 3 = 4,559$$

$$4,559 < 7,267$$

Th	H	T	O
●●●●	●●●●●	●●●●●	●●●●●●●●
		●●●	●

$$4,556 + 30 = 4,586$$

$$4,586 < 7,267$$

Th	H	T	O
●●●●	●●●●●	●●●●●	●●●●●●●●
●●●			●

$$4,556 + 3,000 = 7,556$$

$$7,556 > 7,267$$

Reena could beat the high score if she caught the +3,000 bonus bubble.



Think together

1 Ellie's score is 7,646.

How would each damage star change Ellie's score?



Th	H	T	O
●●●●●	●●●●●	●●●●	●●●●
●●	●		●

a) $7,646 - 4 = \square$

Th	H	T	O
●●●●●	●●●●●	●●●●	●●●●
●●	●	●●●●	●

b) $7,646 - \square = \square$

Th	H	T	O
●●●●●	●●●●●	●●●●	●●●●
●●	●	●●●●	●

c) $7,646 - 400 = \square$

Th	H	T	O

d) $7,646 - 4,000 = \square$

2 Lewis has scored 8,888. Show how his score would change each time.

a) $8,888 - 500 = \square$

c) $\square = 8,888 - 5,000$

b) $8,888 - \square = 8,883$

d) $8,838 = 8,888 - \square$

3 a) Max has scored 3,869 points.

He hits a +5,000 bonus bubble, then a -2,000 damage star.

What will his score be now?

I wonder what happens if I do this calculation in a different order.

I might combine the bonus and the damage first, to work out the effect.



b) Jamilla has 4,545 points.

She hits a damage star, then a bonus bubble. Now she has 4,555 points.

What star and bubble could she have hit? Find five possible answers.

CHALLENGE

Adding and subtracting 1s, 10s, 100s, 1,000s

1 Solve these calculations.

a)

Th	H	T	O
⊖ ⊖ ⊖ ⊖	⊖	⊖ ⊖ ⊖	⊙ ⊙ ⊙ ⊙ ⊙ ⊙
			⊙ ⊙

$$4,137 + 2 = \square$$

b)

Th	H	T	O

$$4,137 + \square = \square$$

2 Work out the missing numbers.

Th	H	T	O
⊖ ⊖ ⊖ ⊖ ⊖ ⊖	⊖ ⊖ ⊖ ⊖ ⊖ ⊖	⊖ ⊖ ⊖ ⊖ ⊖ ⊖	⊙ ⊙ ⊙ ⊙ ⊙ ⊙
⊖	⊖	⊖	⊙

- a) $6,666 + 2 = \square$ d) $6,666 - 200 = \square$
 b) $6,666 + 20 = \square$ e) $6,666 = \square - 200$
 c) $2,000 + 6,666 = \square$

3 Complete these calculations.

- a) $3,154 + 500 = \square$ e) $\square + 1,000 = 2,134$
 b) $500 + 4,351 = \square$ f) $\square + 4,000 = 4,521$
 c) $9,786 - 4,000 = \square$ g) $4,014 - 10 = \square$
 d) $\square = 7,968 - 400$ h) $5,001 - \square = 1$

4 a) How much does the car cost now?

$$7,999 \bigcirc \square = \square$$

The car costs £ \square now.



b) How much has the price of the van changed by?

$$8,749 \bigcirc \square = 8,249.$$

The price has changed by £ \square .



5 $3,333 + 4,000 = 7,333$

Explain how to use this fact to solve $7,333 - 3,333 = \square$.



Now work out $8,181 - 8,111 = \square$

6 a) Use these cards once each to complete all the puzzles.

CHALLENGE

100 200 300 400 500 600 700 800 900

$$3,334 + \square - \square = 3,434 \quad 3,334 - \square + \square = 3,434$$

$$3,934 - \square - \square = 3,434$$

$$3,434 - \square - \square + \square = 3,434$$

b) Find another way to do them.

$$3,334 + \square - \square = 3,434 \quad 3,334 - \square + \square = 3,434$$

$$3,934 - \square - \square = 3,434$$

$$3,434 - \square - \square + \square = 3,434$$

Reflect

$$5,167 + \square = 9,167$$

Show how to work out the missing number.



Tuesday

Power Up

Make six 4-digit numbers with the digit cards.



Order your numbers from smallest to greatest.

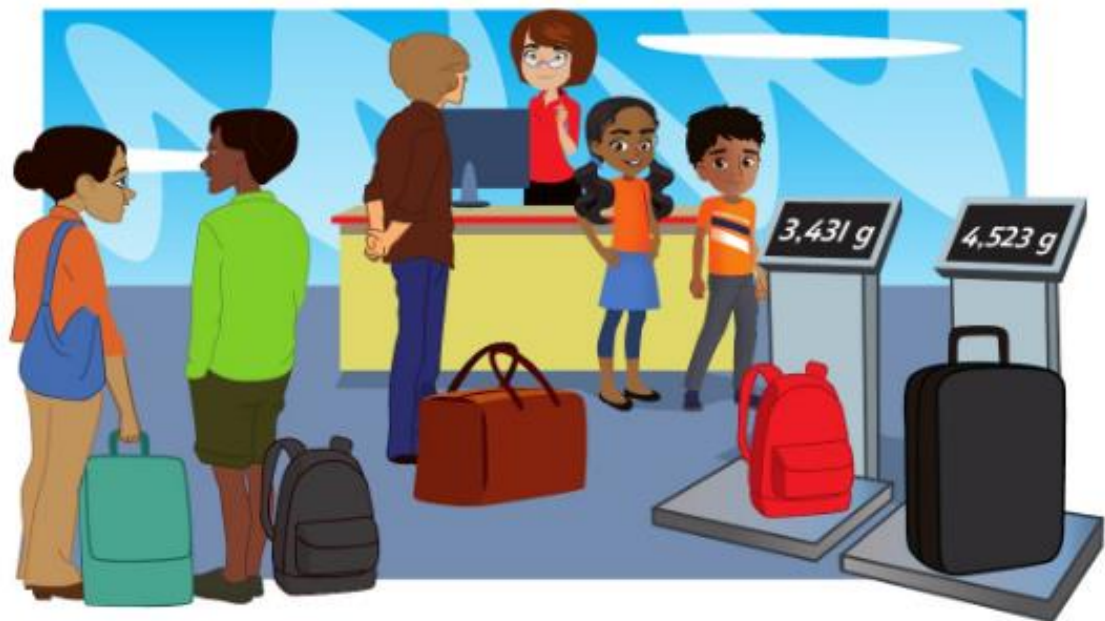
Choose four of your own numbers and share with a partner.
Do you both have the same number as the largest?



I am going to use a number line to help me order my numbers.

Adding two 4-digit numbers 1

Discover



- 1** a) How much do the suitcase and the backpack weigh in total?
 b) The luggage can weigh a maximum of 9,000 g in total.
 Are they under the limit?
 Show this on a number line.

Share

a) Add the columns from the right, starting with the 1s.



Th	H	T	O
●●●●	●●●●	●●	●●●
●●●●	●●●●	●●●	●

Th	H	T	O
4	5	2	3
+	3	4	3
			4

Th	H	T	O
●●●●	●●●●	●●	●●●
●●●●	●●●●	●●●	●

Th	H	T	O
4	5	2	3
+	3	4	3
		5	4

Th	H	T	O
●●●●	●●●●	●●	●●●
●●●●	●●●●	●●●	●

Th	H	T	O
4	5	2	3
+	3	4	3
	9	5	4

Th	H	T	O
●●●●	●●●●	●●	●●●
●●●●	●●●●	●●●	●

Th	H	T	O
4	5	2	3
+	3	4	3
7	9	5	4

$4,523 + 3,431 = 7,954$. The luggage weighs 7,954 g in total.




b)

7,954

↓

6,000 7,000 8,000 9,000 10,000

7,954 < 9,000. They are under the weight limit.



Think together

1 How much do the two bags weigh in total?



Th	H	T	O
●●●●	●	●●●●	●●

Th	H	T	O
●●	●●●		●●●●●

$$\begin{array}{r} \text{Th H T O} \\ 3 \ 1 \ 4 \ 2 \\ + 2 \ 3 \ 0 \ 6 \\ \hline \end{array}$$

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

The two bags weigh \square g in total.

2 Compare the total weight of each pair of bags. What do you notice?



$$\begin{array}{r} \text{Th H T O} \\ 2 \ 5 \ 2 \ 5 \\ + 1 \ 2 \ 3 \ 4 \\ \hline \end{array}$$



$$\begin{array}{r} \text{Th H T O} \\ 1 \ 5 \ 3 \ 5 \\ + 2 \ 2 \ 2 \ 4 \\ \hline \end{array}$$

3 Two suitcases weigh 7,777 g in total. Fill in the missing digits to show how much the second suitcase weighs.

$$\begin{array}{r} \text{Th H T O} \\ 3 \ 4 \ 5 \ 2 \\ + \\ \hline 7 \ 7 \ 7 \ 7 \end{array}$$

Th	H	T	O
●●●●	●●●●	●●●●	●●
●●●●●●	●●●●	●●●●	●●●●●

$$3,452 + \square = 7,777$$

4 $4,521 + 346 = \square$

$$\begin{array}{r} \text{Th H T O} \\ 4 \ 5 \ 2 \ 1 \\ + 3 \ 4 \ 6 \\ \hline 7 \ 9 \ 8 \ 1 \end{array}$$

$$4,521 + 346 = 7,981$$

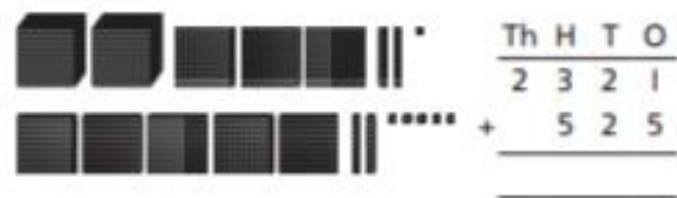
I made sure the digits lined up.



Show the mistake Dexter has made using place value equipment. What is the correct addition?

Adding two 4-digit numbers 1

- 1 Holly has saved £2,321. Toshi has saved £525.
How much have they saved altogether?



They have saved £ altogether.

Think carefully about what is in each column.



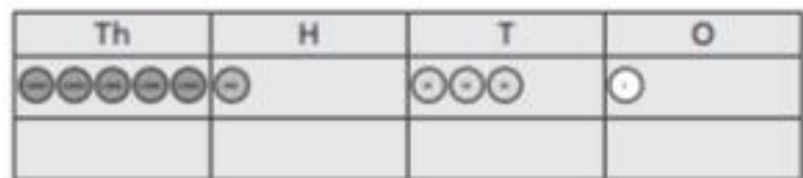
- 2 Complete the additions.

a)



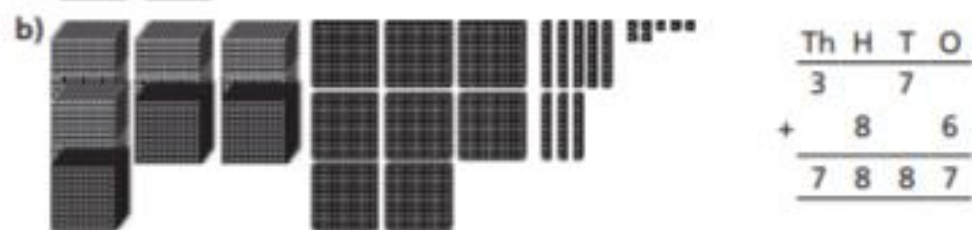
$3,105 + 3,511 = \text{ } \square$

b)

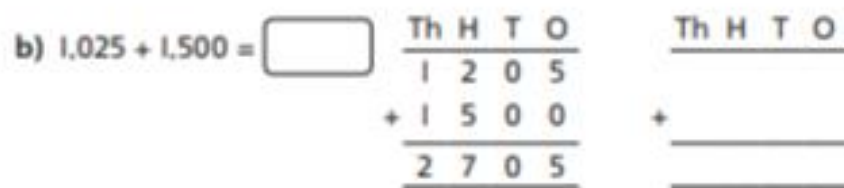
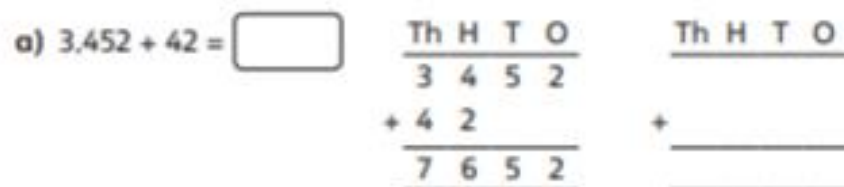


$5,131 + 3,051 = \text{ } \square$

- 3 Fill in the missing digits.



- 4 Find and correct the two mistakes.



- 5 What is 2,345 more than 4,153?

6 Complete these calculations. Show which method you used for each.

a) $1,045 + 2,331 =$

b) $4,521 + 432 =$



7 How many different solutions can you find using only the digits 1 and 8?

Can you find all the possible solutions?

I think there are different solutions because ...

Th	H	T	O
+			
9	9	9	9

CHALLENGE



Reflect

Work out $2,512 + 5,105$ using column addition. Choose some equipment to show a partner how you did it.

