

Hello Y4s, I hope you have had a lovely weekend. Here is your maths for today. Follow the link <https://vimeo.com/430335306> and watch the teaching video 'Estimating answers' and try the questions below.

Estimate answers

- 1 Filip is working out $607 + 395$

He rounds his numbers to the nearest hundred to estimate the answer.

- a) Complete the sentences.

607 rounded to the nearest hundred is

395 rounded to the nearest hundred is

Filip's estimate for the answer is

+ =

- b) Use column addition to work out the actual answer.

	Th	H	T	O
		6	0	7
+		3	9	5

The actual answer is

- 2 Alex is working out $7,958 - 6,103$

Alex rounds her numbers to the nearest thousand to estimate the answer.

- a) Complete the sentences.

7,958 rounded to the nearest thousand is

6,103 rounded to the nearest thousand is

Alex's estimate is

- =

- b) Use column subtraction to work out the actual answer.

	Th	H	T	O
	7	9	5	8
-	6	1	0	3

The actual answer is

- 3 Mr Howell writes a subtraction on the board.

795 - 503

I estimate the answer will be close to 200 because $700 - 500 = 200$



What mistake has Dora made?

Write a better estimate.

- 4 a) Tom is estimating an addition calculation.

His estimate is $3,000 + 1,000 = 4,000$

Write three possible additions Tom could be estimating.

+ =

+ =

+ =

Remember-

Estimating is a very useful skill to develop - it helps you to spot careless errors when your answer, after using a calculation method, is much larger or smaller than your estimated answer.

Challenge on last page

b) Dani is estimating a subtraction calculation.

Her estimate is $\text{£}600 - \text{£}100 = \text{£}500$

Write three possible subtractions Dani could be estimating.

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

$$\boxed{} - \boxed{} = \boxed{}$$

5 Complete the table. Show your workings.

Question	Estimated answer	Accurate answer
$3,970 \text{ km} - 1,850 \text{ km}$		
$7,076 - 852$		
$7,076 - 652$		
$1,994 \text{ ml} + 1,994 \text{ ml}$		

6 Whitney and Dexter are estimating the answer to $2,706 - 1,394$

Whitney's estimate is $3,000 - 1,000 = 2,000$

Dexter's estimate is $2,700 - 1,400 = 1,300$

Whose estimate is more accurate? Why?

7 A forest has 2,638 trees.



1,172 more trees are planted.

a) Use rounding to estimate the number of trees in the forest now.

b) Work out the actual number of trees in the forest.

c) How accurate was your estimate?

Challenge – you will need to find someone at home to play this with you.

Four Go

Age 7 to 11 ★★

Draw a number line on a piece of paper, marked from 0 to 20, like this:



(You could print off [this sheet](#) which has several number lines drawn on it.)

This challenge is a game for two players. The first player chooses two numbers in this grid and either multiplies or divides them.

100	25	5
10	2	36
12	4	3



He or she then marks the answer to the calculation on the number line. The second player then chooses two numbers and either multiplies or divides them and marks that number in a different colour on the number line.

If the answer is too big or too small to be marked on the number line, the player misses a go.

The winner is the player to get four marks in a row with none of their opponent's marks in between.

Good luck

Estimate answers

1

Filip is working out $607 + 395$

He rounds his numbers to the nearest hundred to estimate the answer.

a) Complete the sentences.

607 rounded to the nearest hundred is 600

395 rounded to the nearest hundred is 400

Filip's estimate for the answer is

$$\boxed{600} + \boxed{400} = \boxed{1,000}$$

b) Use column addition to work out the actual answer.

Th	H	T	O
	6	0	7
+	3	9	5
	1	0	0
	1	1	

The actual answer is 1,002

2

Alex is working out $7,958 - 6,103$

Alex rounds her numbers to the nearest thousand to estimate the answer.

a) Complete the sentences.

7,958 rounded to the nearest thousand is 8,000

6,103 rounded to the nearest thousand is 6,000

Alex's estimate is

$$\boxed{8,000} - \boxed{6,000} = \boxed{2,000}$$

b) Use column subtraction to work out the actual answer.

Th	H	T	O
	7	9	5
-	6	1	0
	1	8	5

The actual answer is 1,855

3

Mr Howell writes a subtraction on the board.

$$\boxed{795 - 503}$$

I estimate the answer will be close to 200 because $700 - 500 = 200$

What mistake has Dora made?

Write a better estimate.

795 rounds to 800 not 700

$800 - 500 = 300$

4

a) Tom is estimating an addition calculation.

His estimate is $3,000 + 1,000 = 4,000$

Write three possible additions Tom could be estimating.

E.g.

$$\begin{array}{l} 2,999 + 999 = 3,998 \\ 3,076 + 1,200 = 4,276 \\ 2,621 + 1,334 = 3,955 \end{array}$$

5

Dani is estimating a subtraction calculation.

Her estimate is $\pounds 600 - \pounds 100 = \pounds 500$

Write three possible subtractions Dani could be estimating.

E.g.

$$\begin{array}{l} \pounds 601 - \pounds 107 = \pounds 494 \\ \pounds 649 - \pounds 130 = \pounds 519 \\ \pounds 550 - \pounds 72 = \pounds 478 \end{array}$$

5

Complete the table. Show your workings.

Question	Estimated answer	Accurate answer
3,970 km - 1,850 km	<i>2,000 km</i>	<i>2,120 km</i>
7,076 - 852	<i>6,000</i>	<i>6,224</i>
7,076 - 652	<i>6,000</i>	<i>6,424</i>
1,994 ml + 1,994 ml	<i>4,000 ml</i>	<i>3,988 ml</i>

6

Whitney and Dexter are estimating the answer to $2,706 - 1,394$

Whitney's estimate is $3,000 - 1,000 = 2,000$

Dexter's estimate is $2,700 - 1,400 = 1,300$

Whose estimate is more accurate? Why?

Dexter's because he has rounded to the nearest

100

7

A forest has 2,638 trees.



1,172 more trees are planted.

a) Use rounding to estimate the number of trees in the forest now.

3,800

b) Work out the actual number of trees in the forest.

3,810

c) How accurate was your estimate?

