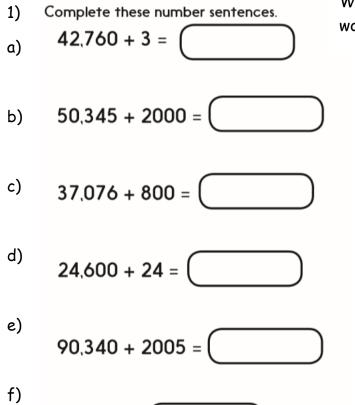## WALT use place value to determine the size of digits.

Please choose 1 of these 3 sheets to work on. Complete as much as you can.

The third is the most challenging.

1)  Complete these number sentences.

Write your answers as a number **and** as a word.

a)  42,760 + 3 = ( )

b)  50,345 + 2000 = ( )

c)  37,076 + 800 = ( )

d)  24,600 + 24 = ( )

e)  90,340 + 2005 = ( )

f)  63,058 + ( ) = 63,758

g) What is the value of 3 in 873,160?

h) The value of 6?

i) The value of 8?

j) Write in figures forty thousand and twenty.

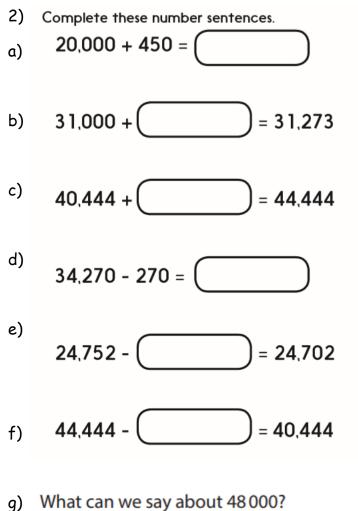k) A car costs more than £8600 but less than £9100. Tick the prices that the car might cost.

£8569 ☐  £9090 ☐  £9130 ☐  £8999 ☐

Write your answers as a number **and** as a word.

2) Complete these number sentences.

a) $20,000 + 450 =$ ( )

b) $31,000 + ($ ) $= 31,273$

c) $40,444 + ($ ) $= 44,444$

d) $34,270 - 270 = ($ )

e) $24,752 - ($ ) $= 24,702$

f) $44,444 - ($ ) $= 40,444$

g) What can we say about 48 000?

It is [ ] less than 50 000.
It is made of 40 000 and [ ] together.
It is made of [ ] thousands.
It is made of [ ] hundreds.
It is made of [ ] tens.

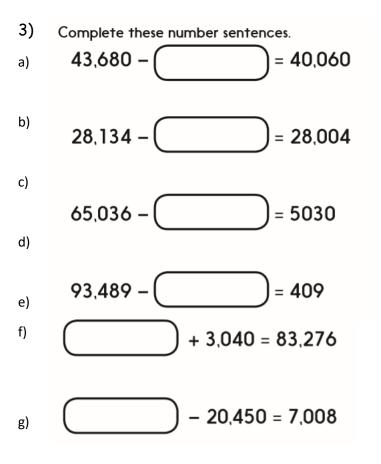h) Think of a 6 digit number. Write it down.

+200 -9 +1000

What is your new number?

Write your answers as a number **and** as a word.

3) Complete these number sentences.

a) $43,680 - \boxed{\phantom{xxxxx}} = 40,060$

b) $28,134 - \boxed{\phantom{xxxxx}} = 28,004$

c) $65,036 - \boxed{\phantom{xxxxx}} = 5030$

d) $93,489 - \boxed{\phantom{xxxxx}} = 409$

e) $\boxed{\phantom{xxxxx}} + 3,040 = 83,276$

f)

g) $\boxed{\phantom{xxxxx}} - 20,450 = 7,008$

h) Captain Conjecture says, 'Using the digits 0 to 9 we can write any number, no matter how large or small.'

Do you agree?
Explain your reasoning.

**Challenge**

Start with 22,222 and throw a die. Every time you throw, you can add that number of 1s, 10s, 100s, 1000s, 10,000s or 100,000s. For example, if you throw a 3, you add 3000 to 22,222. The aim is to get exactly 99,999 but you must not go over! Estimate first how many throws it will take. Then try. Now estimate again, and try again.

**Further challenge:** What is the best possible combination of throws to get from 22,222 to 99,999 in the shortest time?

Hamilton Trust and NCETM resources.