Yr 6 Place Value Unit 1 (6113)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Place value number sentences Sheet 1
Working towards ARE

Day 1 Place value number sentences Sheet 2
Working at ARE

Day 1 Place value number sentences Sheet 3
Greater Depth

Day 2 5- and 6-digit addition and subtraction practice Sheet 1
Working towards ARE do at least questions 1 to 8.
Working at ARE aim to complete the Challenge.

Day 2 5- and 6-digit addition and subtraction practice Sheet 2
Greater Depth

Place value number sentences

Sheet 1

Complete these number sentences.

430,000 + 6000 = ☐

770,777 + ☐ = 777,777

600,233 – 200 = ☐

800,370 + 22,008 = ☐

534,027 + ☐ = 534,627

272,896 – ☐ = 200,896

200,000 + ☐ = 234,800

744,522 – 522 = ☐

645,005 – ☐ = 5005

904,678 + ☐ = 924,678

827,410 – 7000 = ☐

852,462 – ☐ = 850,062

Challenge

There are 45,874 books in a library. There are enough shelves for 40,700. How many books still need shelving?

Place value number sentences

Sheet 2

Complete these number sentences.

430,000 + 6378 = ☐

234,000 + ☐ = 234,846

770,777 + ☐ = 777,777

734,523 - 523 = ☐

652,235 - 50,000 = ☐

645,345 - ☐ = 5345

805,370 + 20,007 = ☐

904,678 + ☐ = 924,678

504,027 + ☐ = 534,627

827,410 - 27,000 = ☐

272,896 - ☐ = 200,896

852,462 - ☐ = 802,060

Challenge

There are 345,874 items in a museum. 300,404 are in display cases. How many are not yet on display?

Place value number sentences

Sheet 3

Complete these number sentences.

970,104 + 6070 = ☐

504,301 + ☐ = 554,391

400,907 + ☐ = 473,957

874,985 – 70,980 = ☐

757,331 – 50,030 = ☐

645,345 - ☐ = 5345

852,462 + ☐ = 860,067

Write three additions or subtractions of your own, similar to those above, to perform place value calculations.

Challenge

There are 115,472 homes in a district. The council orders 105,400 recycling bins for its residents. The council also has 70 bins already in stock. How many homes will not get a bin?

5- and 6-digit addition and subtraction practice

Sheet 1

1. 40,200 + 30,500
2. 52,300 + 1200
3. 63,001 + 2050
4. 177,250 + 10,007
5. 40,901 + 206,003
6. 45,379 – 370
7. 39,241 – 19,040
8. 45,388 – 40,006
9. 135,684 – 105,003
10. 756,937 – 623,030

Challenge

46,053 + ☐ = 88,888

777,777 - ☐ = 123,456

5- and 6-digit addition and subtraction practice

Sheet 2

What number completes each of these 'place value' calculations?

1. 45,248 + ☐ = 45,888
2. 52,382 + ☐ = 72,782
3. 63,521 - ☐ = 60,001
4. 38,413 - ☐ = 8000
5. ☐ + 20,022 = 73,416
6. ☐ - 41,414 = 55,555
7. ☐ - 535,353 = 212,121
8. 745,382 - ☐ = 121,212
9. 135,684 + ☐ = 898,989
10. 876,543 - ☐ = 123,123

Challenge

Use the digits 1-6 to make a 6-digit number, then the digits 4-9 to make a second 6-digit number. Arrange the digits so that the two numbers have a difference of 333,333. Find three different solutions where the digits in the larger number are non-consecutive.

Place value

Answers

Day 1 Sheet 1 Place value number sentences

430,000 + 6000 = **436,000**
770,777 + **7000** = 777,777
600,233 - 200 = **600,033**
800,370 + 22,008 = **822,378**
534,027 + **600** = 534,627
272,896 – **72,000** = 200,896

200,000 + **34,800** = 234,800
744,522 - 522 = **744,000**
645,005 - **64,000** = 5005
904,678 + **20,000** = 924,678
827,410 – 7000 = **820,410**
852,462 – **2400** = 850,062

Challenge

5174 books will still need shelving.

Day 1 Sheet 2 Place value number sentences

430,000 + 6378 = **436,378**
234,000 + **846** = 234,846
770,777 + **7000** = 777,777
734,523 - 523 = **734,000**
652,235 - 50,000 = **602,235**
645,345 - **640,000** = 5345

805,370 + 20,007 = **825,377**
904,678 + **20,000** = 924,678
504,027 + **30,600** = 534,627
827,410 - 27,000 = **800,410**
272,896 - **72,000** = 200,896
852,462 - **50,402** = 802,060

Challenge

45,470 items are not on display.

Day 1 Sheet 3 Place value number sentences

970,104 + 6070 = **976,174**
400,907 + **73,050** = 473,957
757,331 – 50,030 = **707,301**
645,345 – **640,000** = 5345
852,462 + **7605** = 860,067

504,301 + **50,090** = 554,391
874,985 – 70,980 = **804,005**

Challenge

10,002 homes will not get a bin.

Day 2 Sheet 1 5- and 6-digit addition and subtraction practice

1. 40,200 + 30,500 = **70,700**
2. 52,300 + 1200 = **53,500**
3. 63,001 + 2050 = **60,051**
4. 177,250 + 10,007 = **187,257**
5. 40,901 + 206,003 = **246,904**
6. 45,379 – 370 = **45,009**
7. 39,241 – 19,040 = **20,201**
8. 45,388 – 40,006 = **5,382**
9. 135,684 – 105,003 = **30,681**
10. 756,937 – 623,030 = **133,907**

Challenge

46,053 + **42,835** = 88,888

777,777 - **654,321** = 123,456

Place value

Answers

Day 2 Sheet 2 5- and 6-digit addition and subtraction practice

1. 45,248 + **640** = 45,888
2. 52,382 + **20,400** = 72,782
3. 63,521 - **3520** = 60,001
4. 38,413 - **30,413** = 8000
5. **53,414** + 20,002 = 73,416
6. **96,969** - 41,414 = 55,555
7. **747,474** - 535,353 = 212,121
8. 745,382 - **624,170** = 121,212
9. 135,684 + **763,305** = 898,989
10. 876,543 - **753,420** = 123,123

Challenge

Accept answers where one 6-digit number uses only the digits 1-6 and the other 6-digit number uses only the digits 4-9 and the difference is 333,333.
E.g. 564,987 - 231,654 = 333,333