Y5/6 Place value Unit 1 (56110)

Additional teacher instructions for practice sheets

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

Day 1 Y5 Place value additions and subtractions Sheet 1
Working towards ARE

Day 1 Y5 Place value additions and subtractions Sheet 2
Working at ARE / Greater Depth

Day 1 Y6 Place value additions and subtractions Sheet 3
Working towards ARE

Day 1 Y6 Place value additions and subtractions Sheet 4
Working at ARE / Greater Depth

Day 2 Y5 Adding and subtracting 1, 10, 100, 1000 and 10,000 Sheet 1
Working towards ARE

Day 2 Y5 Adding and subtracting 1s, 10s, 100s, 1000s and 10,000s Sheet 2
Working at ARE / Greater Depth

Day 2 Y6 Adding and subtracting 1s, 10s, 100s, 1000s, 10,000s and 100,000s Sheet 3
Working towards ARE

Day 2 Y6 Adding and subtracting 1s, 10s, 100s, 1000s, 10,000s and 100,000s Sheet 4
Working at ARE / Greater Depth

Day 3 Y5 Comparing 5-digit numbers Sheet 1
Working towards ARE / Working at ARE

Day 3 Y5 Ordering 5-digit numbers Sheet 2
Greater Depth

Day 3 Y6 Comparing numbers up to 1 million Sheet 3
Working towards ARE

Day 3 Y6 Comparing numbers up to 1 million Sheet 4
Working at ARE / Greater Depth
Working at ARE complete questions 1 to 14.
Greater Depth complete all questions.

Place value additions and subtractions

Sheet 1

Complete these number sentences.

20,000 + 450 = ☐

5003 + ☐ = 45,523

31,000 + ☐ = 31,273

10,000 + ☐ = 10,725

40,444 + ☐ = 44,444

70,777 + ☐ = 77,777

34,270 – 270 = ☐

52,235 – 50,000 = ☐

24,752 – ☐ = 24,702

72,896 – ☐ = 896

44,444 – ☐ = 40,444

45,345 – ☐ = 5345

Place value additions and subtractions

Sheet 2

Complete these number sentences.

43,680 – ☐ = 40,080

28,134 – ☐ = 28,004

65,036 – ☐ = 5030

93,489 – ☐ = 409

20,406 + ☐ = 23,476

51,080 + ☐ = 51,983

3780 + ☐ = 83,781

402 + ☐ = 75,412

☐ + 2700 = 62,745

☐ + 3040 = 83,276

☐ – 20,450 = 7008

☐ – 8,078 = 70,600

Place value additions and subtractions

Sheet 3

Complete these number sentences.

430,000 + 6000 = ☐

200,000 + ☐ = 234,800

770,777 + ☐ = 777,777

744,522 – 522 = ☐

600,233 – 200 = ☐

645,005 – ☐ = 5005

800,370 + 22,008 = ☐

904,678 + ☐ = 924,678

534,027 + ☐ = 534,627

827,410 – 7000 = ☐

272,896 – ☐ = 200,896

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 additions and subtractions

Sheet 4

Complete these number sentences.

430,000 + 6378 = ☐

805,370 + 20,007 = ☐

234,000 + ☐ = 234,846

904,678 + ☐ = 924,678

770,777 + ☐ = 777,777

504,027 + ☐ = 534,627

734,523 - 523 = ☐

827,410 - 27,000 = ☐

652,235 - 50,000 = ☐

272,896 - ☐ = 200,896

645,345 - ☐ = 5345

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?

Adding and subtracting 1, 10, 100, 1000 and 10,000

Sheet 1

44,444 + 1 =	88,888 – 1 =	34,872 + 10 =	95,342 – 1 =
44,444 + 10 =	88,888 – 10 =	34,872 + 1000 =	95,342 – 100 =
44,444 + 100 =	88,888 – 100 =	34,872 + 1 =	95,342 – 1000 =
44,444 + 1000 =	88,888 – 1000 =	34,872 + 100 =	95,342 – 10,000 =
44,444 + 10,000 =	88,888 – 10,000 =	34,872 + 10,000 =	95,342 – 10 =

Adding and subtracting 1s, 10s, 100s, 1000s and 10,000s

Sheet 2

32,473 + 2 =	97,657 – 4 =	24,734 + 200 =	85,346 – 30,000 =
32,473 + 20 =	97,657 – 40 =	24,734 + 50 =	85,346 – 20 =
2,473 + 200 =	97,657 – 400 =	24,734 + 40,000 =	85,346 – 4000 =
2,473 + 2000 =	97,657 – 4000 =	24,734 + 3000 =	85,346 – 200 =
32,473 + 20,000 =	97,657 – 40,000 =	24,734 + 5 =	85,346 – 4 =

Challenge

Start with 22,222 and throw a 1-6 dice. 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 could 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: Suggest a combination of throws needed to get from 22,222 to 99,999 in the shortest time...

Adding and subtracting 1s, 10s, 100s, 1000s, 10,000s and 100,000s

Sheet 3

1. 546,823 + 20,000 = ☐
2. 728,281 – 5000 = ☐
3. ☐ = 238,194 – 60
4. ☐ = 182,356 + 400
5. 428,390 + 500,000 = ☐
6. ☐ = 794,123 – 40,000
7. 421,329 + 70 = ☐
8. 482,949 – 6 = ☐

Challenge

Make up your own place value additions and subtractions where one digit changes. Can you write 6 questions, changing a digit with different place value each time.

Adding and subtracting 1s, 10s, 100s, 1000s, 10,000s and 100,000s

Sheet 4

1. 452,845 + 21,000 = ☐
2. 874,246 – 3001 = ☐
3. ☐ = 378,123 – 200,002
4. 945,184 – 3200 = ☐
5. ☐ = 4200 + 342,781
6. 834,872 – 30,500 = ☐
7. 962,378 – 500,200 = ☐
8. ☐ = 20,450 + 278,235

Challenge

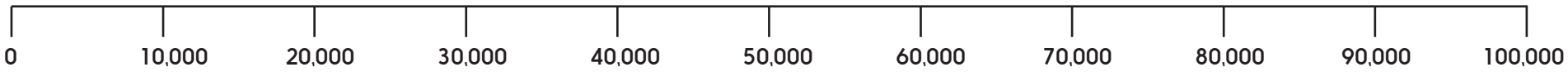
Make up your own place value additions and subtractions where two digits change.
Make up your own place value addition and subtraction where three digits change.

Comparing 5-digit numbers

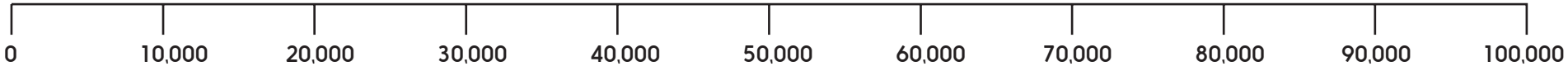
Sheet 1

Mark each pair of numbers on the number line. Write < or > between each pair.

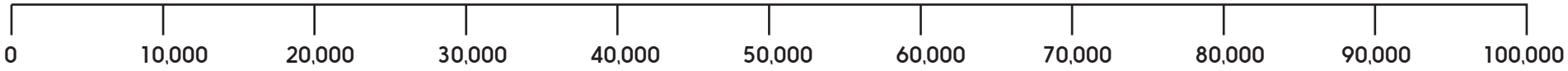
52,000 25,000 86,200 82,600 93,500 90,350



15,720 12,750 86,190 86,910 45,490 54,490



76,543 73,456 50,590 52,950 23,871 21,178



Ordering 5-digit numbers

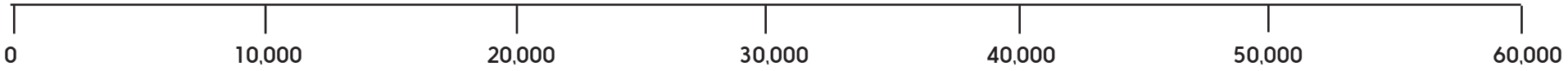
Sheet 2

Use the digits 1 to 5 to make at least three numbers between 20,000 and 40,000. Mark them on the number line.

Use the digits 1 to 5 to make at least three numbers between 15,000 and 25,000. Mark them on the number line.

Use the digits 1 to 5 to make at least three numbers between 40,000 and 45,000. Mark them on the number line.

Use the digits 1 to 5 to make one number as close to 50,000 as you can. Mark it on the number line in a different colour.

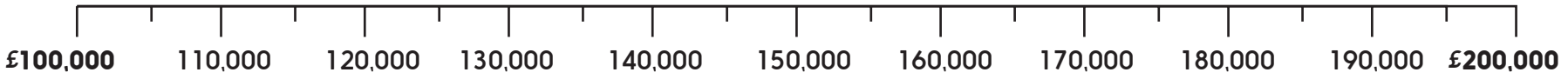


Comparing numbers up to 1 million

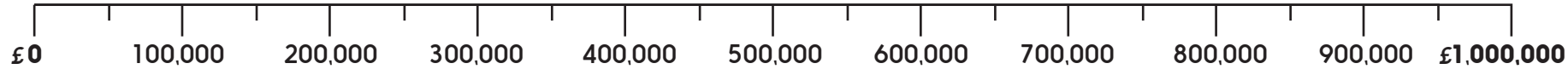
Sheet 3

Look at the property prices below each number line and mark them on the number line.

Prices of small homes in the UK (2017)



1. 2-bedroom flat, Dundee £150,000
2. 3-bedroom terraced house, Hull £155,000
3. 2-bedroom apartment, Chelmsford, £175,000



4. 2-bedroom semi, Cambridge, £350,000
5. 1-bedroom apartment, central Bath, £550,000
6. 2-bedroom apartment, Canary Wharf, London £650,000
7. 1-bedroom flat, Knightsbridge, London £825,000

Write > or < between each pair of numbers.

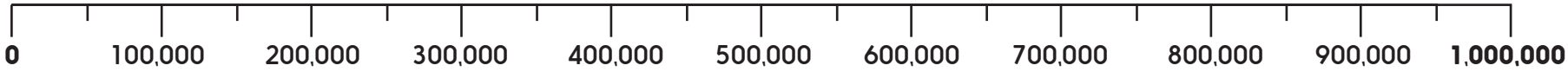
8. 564,000 465,000
9. 129,876 213,000
10. 824,567 842,567

Comparing numbers up to 1 million

Sheet 4

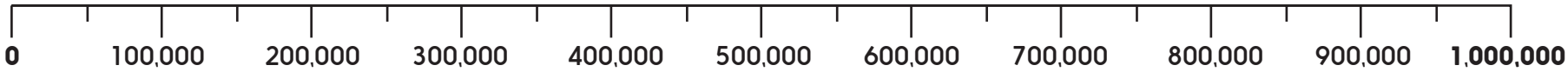
Look at the data below each number line. Mark populations in the correct places.

Populations of 20 UK cities (2011)



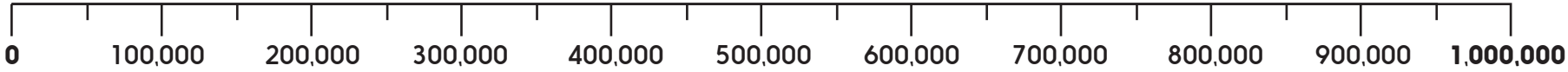
1. Aberdeen 189,000
2. Cardiff 346,000
3. Edinburgh 468,000
4. Glasgow 603,000
5. Lancaster 138,000
6. Leeds 751,000
7. Liverpool 466,500

Choose two populations.
Write < or > between the two numbers.



8. Belfast 333,900
9. Bradford 522,400
10. Bristol 428,200
11. Derby 248,800
12. Exeter 117,800
13. Leicester 329,800
14. Manchester 503,100

Choose two populations.
Write < or > between the two numbers.



15. Newcastle-upon-Tyne 280,170
16. Oxford 151,910
17. Portsmouth 205,050
18. Sheffield 552,690
19. Swansea 239,020
20. York 198,051

Challenge

Choose two numbers on one of your lines.
Write the number that comes half way between these.
Be careful which two you choose - it makes a difference!

Place value

Answers

Day 1 Y5 Place value additions and subtractions Sheet 1

20,000 + 450 = 20,450
31,000 + 273 = 31,273
40,444 + 4000 = 44,444
34,270 - 270 = 34,000
24,752 - 50 = 24,702
44,444 - 4000 = 40,444

5003 + 40,520 = 45,523
10,000 + 725 = 10,725
70,777 + 7000 = 77,777
52,235 - 50,000 = 2235
72,896 - 72,000 = 896
45,345 - 40,000 = 5345

Day 1 Y5 Place value additions and subtractions Sheet 2

43,680 – 3600 = 40,080
28,134 – 130 = 28,004
65,036 – 60,006 = 5030
93,489 – 93,080 = 409
20,406 + 3070 = 23,476
51,080 + 903 = 51,983

3780 + 80,001 = 83,781
402 + 75,010 = 75,412
60,045 + 2700 = 62,745
80,236 + 3040 = 83,276
27,458 – 20,450 = 7008
78,678 – 8078 = 70,600

Day 1 Y6 Place value additions and subtractions Sheet 3

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 Y6 Place value additions and subtractions Sheet 4

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.

Place Value

Answers

Day 2 Y5 Adding and subtracting 1, 10, 100, 1000 and 10,000 Sheet 1

44,444 + 1 = 44,445
44,444 + 10 = 44,454
44,444 + 100 = 44,544
44,444 + 1000 = 45,444
44,444 + 10,000 = 54,444

34,872 + 10 = 34,882
34,872 + 1000 = 35,872
34,872 + 1 = 34,873
34,872 + 100 = 34,972
34,872 + 10,000 = 44,872

88,888 – 1 = 88,887
88,888 – 10 = 88,878
88,888 – 100 = 88,788
88,888 – 1000 = 87,888
88,888 – 10,000 = 78,888

95,342 – 1 = 95,341
95,342 – 100 = 95,242
95,342 – 1000 = 94,342
95,342 – 10,000 = 85,342
95,342 – 10 = 95,332

Day 2 Y5 Adding and subtracting 1s, 10s, 100s, 1000s and 10,000s Sheet 2

32,473 + 2 = 32,475
32,473 + 20 = 32,493
32,473 + 200 = 32,673
32,473 + 2000 = 34,473
32,473 + 20,000 =52,473

24,734 + 200 = 24,934
24,734 + 50 = 24,784
24,734 + 40,000 = 64,734
24,734 + 3000 = 27,734
24,734 + 5 = 24,739

97,657 – 4 = 97,653
97,657 – 40 = 97,617
97,657 – 400 = 97,257
97,657 – 4000 = 93,657
97,657 – 40,000 = 57,657

85,346 – 30,000 = 55,346
85,346 – 20 = 85,326
85,346 – 4000 = 81,346
85,346 – 200 = 85,146
85,346 – 4 = 85,342

Day 2 Y6 Adding and subtracting 1s, 10s, 100s, 1000s,10,000s and 100,000s Sheet 3

1. 546,823 + 20,000 = 566,823
2. 728,281 – 5000 = 723,281
3. 238,134 = 238,194 – 60
4. 182,756 = 182,356 + 400
5. 428,390 + 500,000 = 928,390
6. 754,123 = 794,123 – 40,000
7. 421,329 + 70 = 421,399
8. 482,949 – 6 = 482,943

Place Value

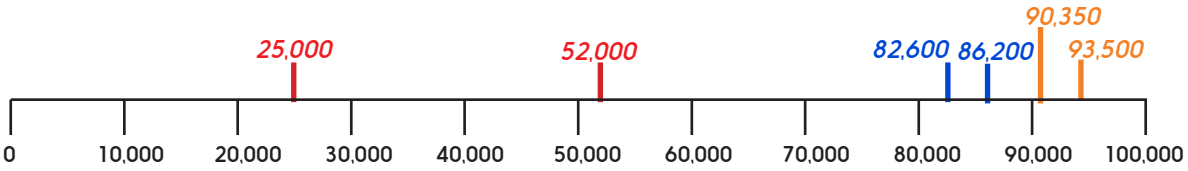
Answers

Day 2 Y6 Adding and subtracting 1s, 10s, 100s, 1000s,10,000s and 100,000s Sheet 4

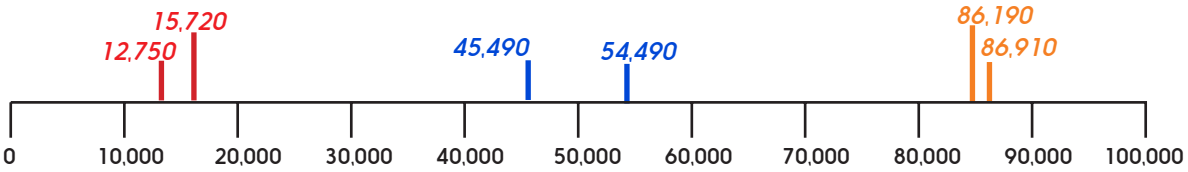
1. 452,845 + 21,000 = 473,845
2. 874,246 – 3001 = 871,245
3. 178,121 = 378,123 – 200,002
4. 945,184 – 3200 = 941,984
5. 346,981 = 4200 + 342,781
6. 834,872 – 30,500 = 804,372
7. 962,378 – 500,200 = 462,178
8. 298,685 = 20,450 + 278,235

Day 3 Y5 Comparing 5-digit numbers Sheet 1

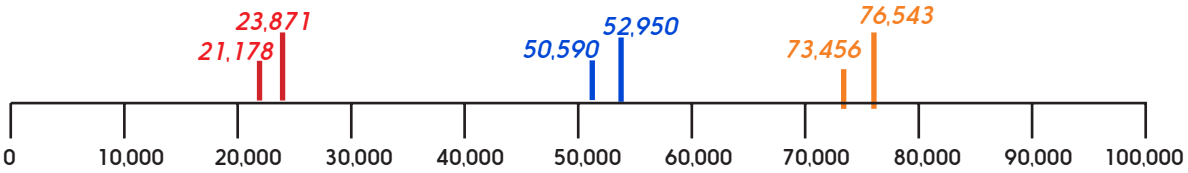
52,000 > 25,000 86,200 > 82,600 93,500 > 90,350



15,720 > 12,750 86,190 < 86,910 45,490 < 54, 490



76,543 > 73,456 50,590 < 52,950 23,871 > 21,178



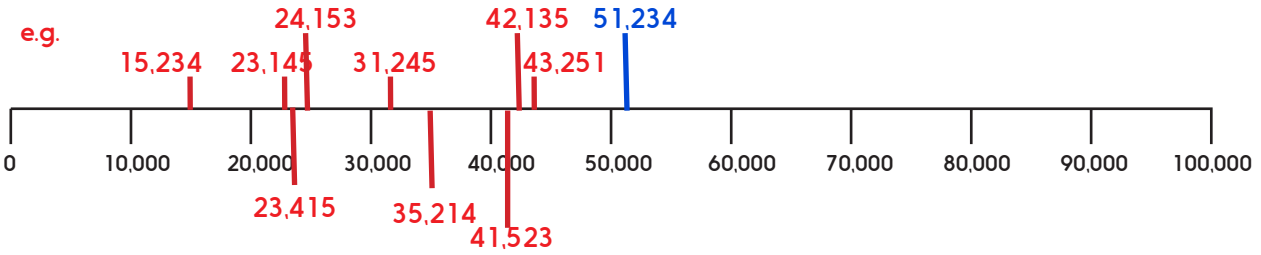
Day 3 Y5 Ordering 5-digit numbers Sheet 2

Use the digits 1 to 5 to make at least three numbers between 20,000 and 40,000,
e.g. 23,145, 31,245, 35,214
Use the digits 1 to 5 to make at least three numbers between 15,000 and 25,000,
e.g. 15,234, 24,153, 23,415
Use the digits 1 to 5 to make at least three numbers between 40,000 and 45,000.
e.g. 43,251, 41,523, 42,135
Use the digits 1 to 5 to make one number as close to 50,000 as you can.
51,234

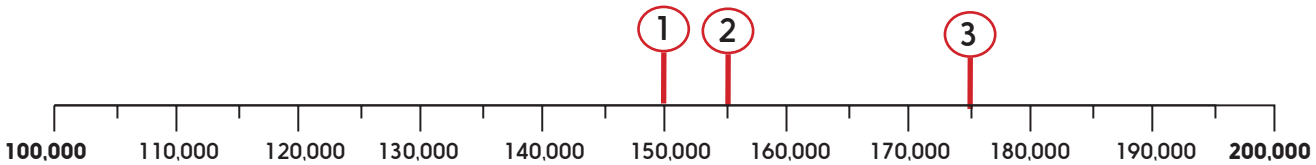
Place Value

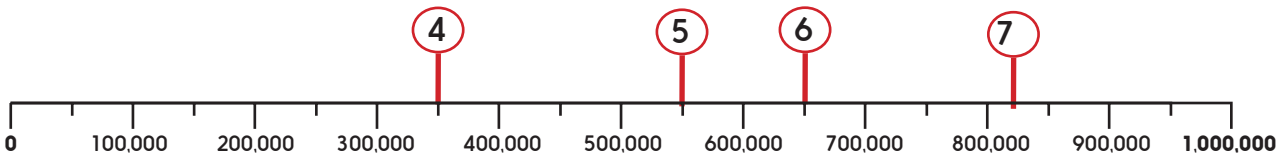
Answers

Day 3 Y5 Ordering 5-digit numbers Sheet 2 continued



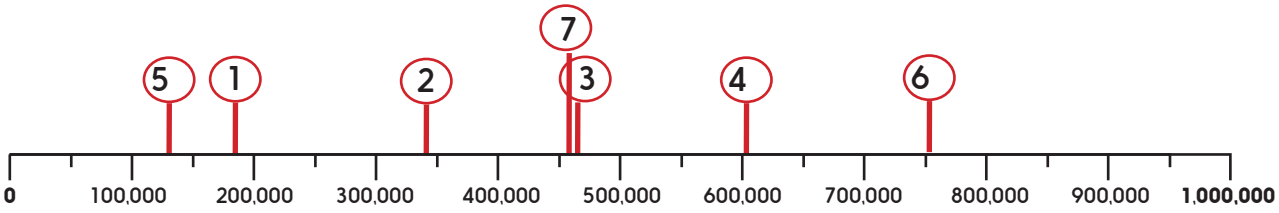
Day 3 Y6 Comparing numbers up to a million Sheet 3



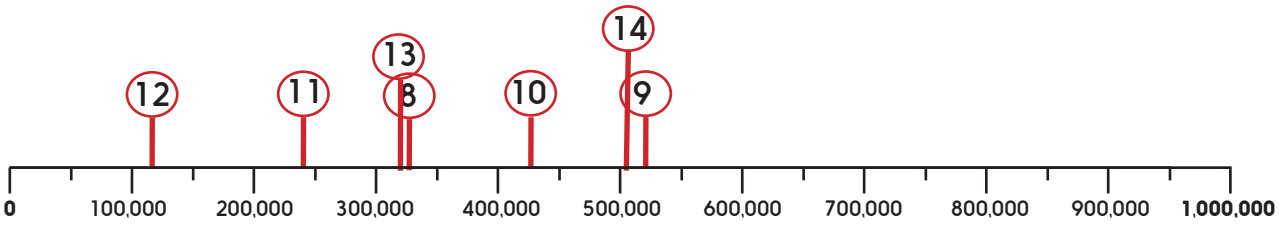


8. 564,000 > 465,000
9. 129,876 < 213,000
10. 824,567 < 842,567

Day 3 Y6 Comparing numbers up to a million Sheet 4



Choose two populations. Write < or > between the two numbers.
e.g. 751,000 > 466,500

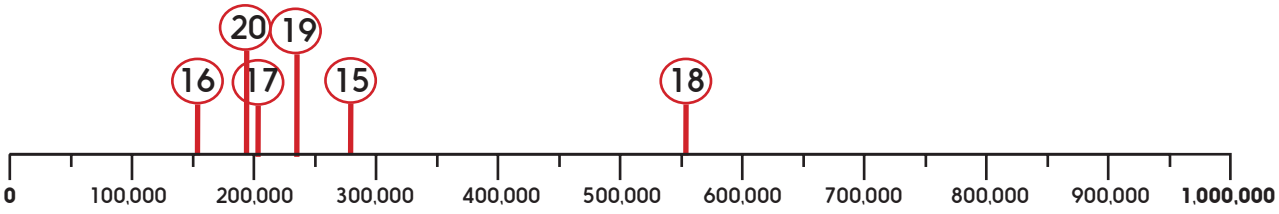


Choose two populations. Write < or > between the two numbers.
e.g. 522,400 > 117,800

Place Value

Answers

Day 3 Y6 Comparing numbers up to a million Sheet 4 continued



Challenge

Choose two numbers on one of your lines. Write the number that comes half way between these. Be careful which two you choose - it makes a difference!
e.g. Belfast 333,900 and Manchester 503,100. 418,500 is halfway.