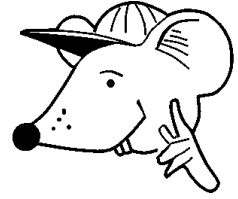


MATHEMATICS



N.S. Yr. 5 P.9

**Vocabulary for comparing
and ordering numbers.**

Equipment

Paper, pencil, ruler.

MathSphere

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Concepts

The following words and phrases should be learnt. Children should know what they mean and be able to read and write them, with the correct spelling.

how many, as many as, the same number as, equal to,

more than, fewer than, greater than, less than,

smaller than, larger than,

most, fewest, greatest, least, smallest, largest,

order, first, last, before, after, next,

between, half way between, give or take

Ordinal numbers: *first, second, third, fourth....*

Cardinal numbers: *one, two, three, four....*

(Cardinal numbers indicate quantity, whilst ordinal numbers indicate position.)

> means 'is greater than' e.g. $4 > 3$ or $7 \times 8 > 2 \times 7$

< means 'is less than' e.g. $8 < 10$ or $2 \times 3 < 4 \times 4$

(The arrow always points to the smaller quantity.)

Numbers are to be compared and the larger, or largest, decided upon.

When comparing two similar numbers begin the comparison with the most significant digit

e.g. **44 385**

and **43 997**

begin by comparing the 4 ten thousands, then the 4 and 3 thousands and so on.

COMPARING NUMBERS

1. Which is more: 27 426 or 26 267 ?
2. Which is more: 15 870 or 17 245 ?
3. Which is more: 22 579 or 22 597 ?
4. Which is less: 18 045 or 18 405 ?
5. Which is less: 18 456 or 18 564 ?
6. Which is longer: 23 109 m or 23 019 m ?
7. Which is longer: 34 609 m or 34 096 m ?
8. Which is longer: 70 083 m or 70 038 m ?
9. Which is shorter: 90 981 km or 91 908 km?
10. Which is shorter: 75 427 km or 75 247 km?
11. Is £17 501 a smaller amount than £ 17 051 ?
12. Is £23 556 a larger amount than £ 23 565 ?
13. Is £30 050 less than £30 500 ?
14. Arsenal had a crowd of 48 705 to watch their football game.
Chelsea had 48 750 watching their match.
Which team had the bigger crowd? By how many?
15. Chris won £38 078 on the lottery.
Mike won £38 178 the next week.
Who won the most? How much more did he win?

I think I'd rather
have £30 500



COMPARING NUMBERS

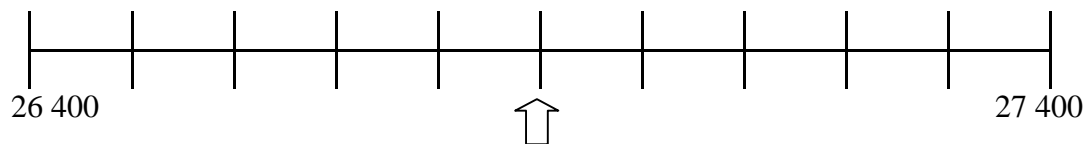
1. Which is more: 42 377 or 24 773 ?
2. Which is more: 65 510 or 65 501 ?
3. Which is more: 29 483 or 29 843 ?
4. Which is less: 20 244 or 20 442 ?
5. Which is less: 10 944 or 10 494 ?
6. Which is longer: 61 067 m or 61 607 m ?
7. Which is longer: 42 760 m or 42 706 m ?
8. Which is longer: 15 505 m or 15 050 m ?
9. Which is shorter: 41 680 km or 4 999 km?
10. Which is shorter: 22 719 km or 22 179 km?
11. Is £76 520 a smaller amount than £ 67 520 ?
12. Is £33 605 a larger amount than £ 33 065 ?
13. Is £27 001 less than £27 010 ?
14. A German model railway set was sold for £ 26 495. Another English railway set was sold for £ 26 950. Which was the more expensive?
By how much?
15. Last year 11 998 people visited a coastal town on Easter Sunday. On the same day this year 11 989 people visited the same town.
Which year had the higher figure?
By how many?

£27 001 - now that
would buy you a
pretty good car!

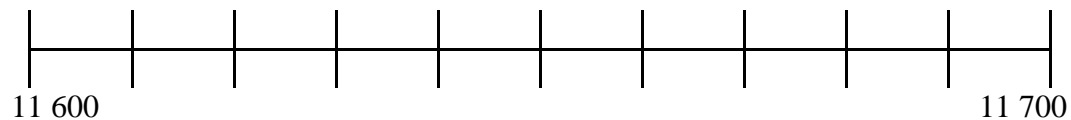


NUMBER LINES

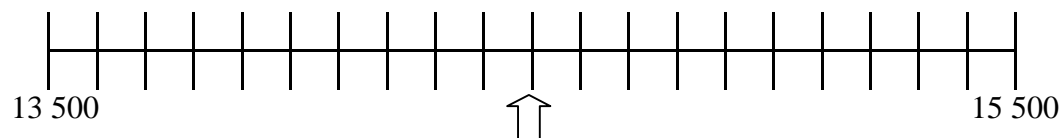
1. Show on the number line what number is half way between 26 400 and 27 400.



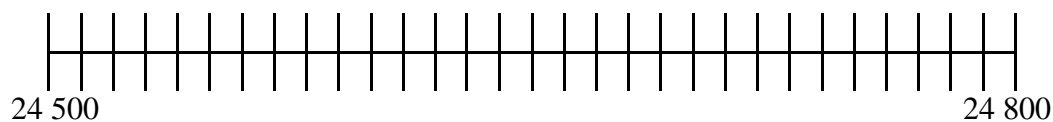
2. Show on the number line what number is half way between 11 600 and 11 700.



3. Show on the number line what number is half way between 13 500 and 15 500.



4. Show on the number line what number is half way between 24 500 and 24 800.



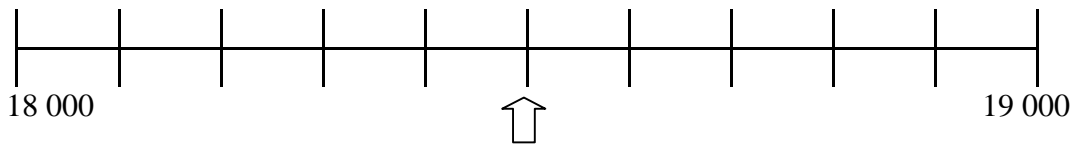
Without using a number line write down what number is half way between these numbers:

5. 34 000 and 36 000 6. 27 600 and 28 000 7. 32 670 and 32 680

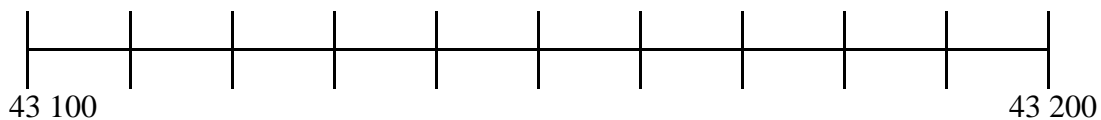
8. 40 000 and 41 000 9. 80 900 and 81 000 10. 63 450 and 63 550

NUMBER LINES

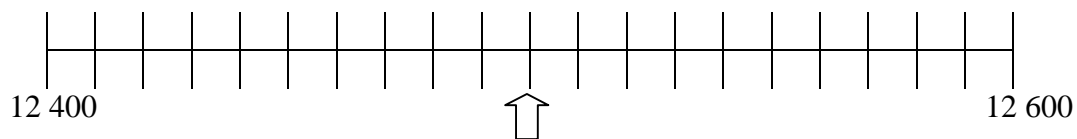
1. On the number line what number is half way between 18 000 and 19 000?



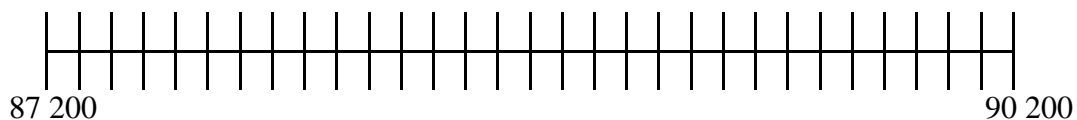
2. On the number line what number is half way between 43 100 and 43 200.



3. Show on the line what number is half way between 12 400 and 12 600.



4. Show on the number line what number is half way between 87 200 and 90 200



Without using a number line write down what is half way between these numbers:

5. 23 400 and 24 000 6. 32 600 and 33 000 7. 87 800 and 88 000

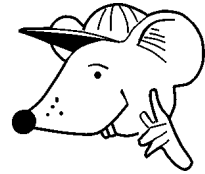
8. 32 200 and 33 000 9. 45 960 and 45 980 10. 63 990 and 64 000

11. Manchester United's football ground holds 54 000 spectators. Southampton's ground holds half this number. How many spectators would fill Southampton's ground?

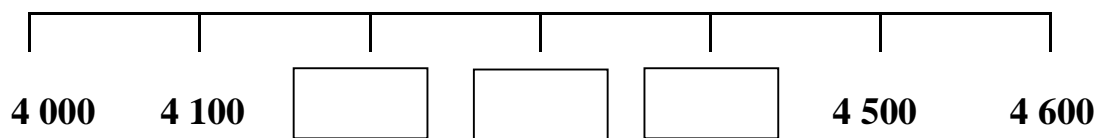
12. Earth has a diameter of approximately 12 800 km. Mars is approximately half the size of Earth. What is the approximate diameter of Mars?

Fill in the missing numbers on these number lines:

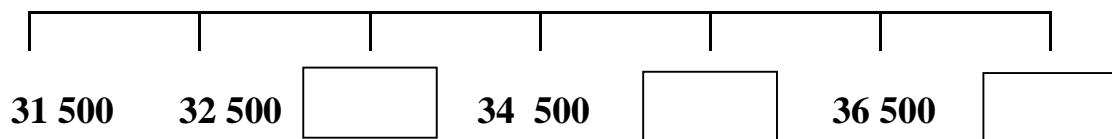
Check whether the numbers
are going up in tens,
hundreds or thousands.



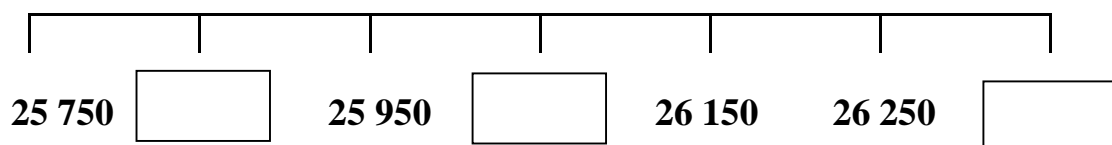
1.



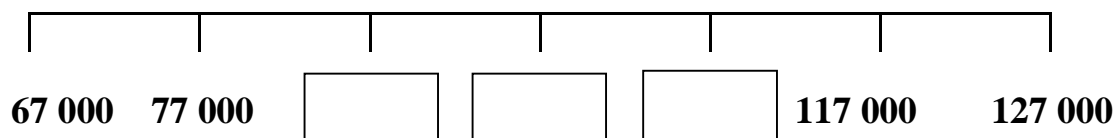
2.



3.



4.

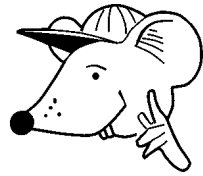


11. I am half way to being able to afford a house costing £90 000. How much money do I have?

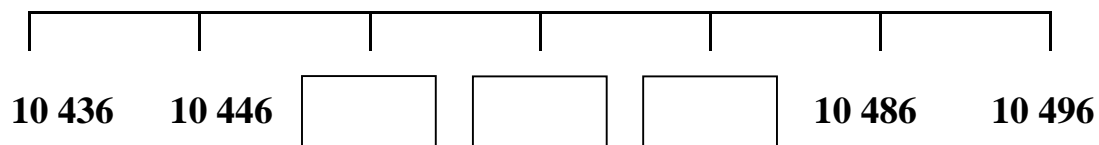
12. Sophie is 1 360 mm tall. Charlotte is 1 460 mm tall. Jenny is half way between the heights of Sophie and Charlotte. How tall is she?

Fill in the missing numbers on these number lines:

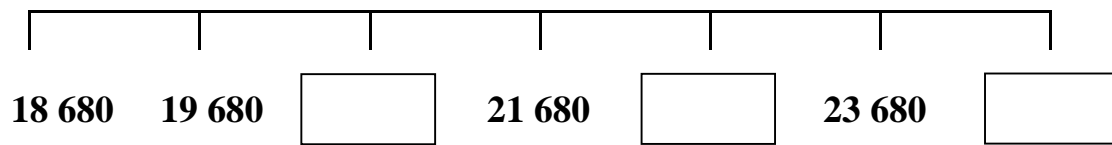
Are they going up in tens,
hundreds or thousands?



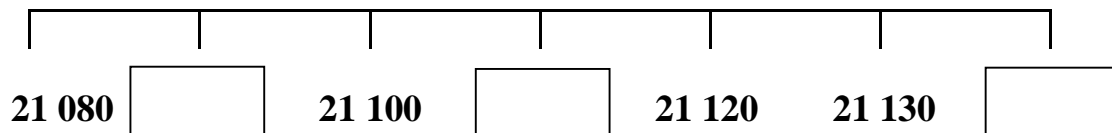
1.



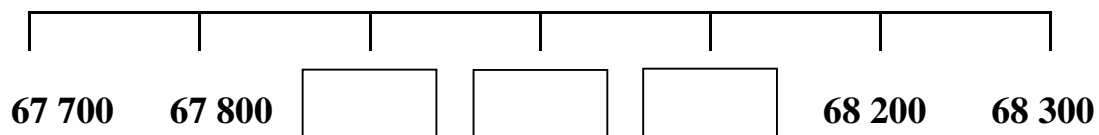
2.



3.



4.



5. Put these numbers in order, largest first:

45 304 45 403 45 034 54 304 54 430

6. Put these numbers in order, smallest first:

15 631 16 315 15 361 16 513 13 651

Put these numbers in order, starting with the smallest:

1. 24 621 42 421 24 146 42 261 24 142
2. 60 060 60 600 60 006 06 006 66 000
3. 15 234 25 341 45 321 35 241 35 142
4. 35 738 35 378 35 387 35 783 35 873

Put these numbers in order, starting with the largest:

5. 13 579 15 379 17 359 19 357 17 935
6. 12 012 12 102 21 120 12 021 21 201

7. Put these lakes in order of size, starting with the largest:

Lake Huron	59 600 sq km
Lake Superior	82 350 sq km
Lake Michigan	58 000 sq km
Lake Victoria	69 500 sq km
Great Bear Lake	31 800 sq km

More like a
sea than a
lake!



8. If $47\,680 < \square < 47\,690$, list all the whole numbers that \square could be.

9. TRUE or FALSE ? $43\,579 > 44\,879$

10. TRUE or FALSE ? $21\,047 > 12\,999$

Put the correct sign in the box to make these statements true

11. $62\,850 \square 62\,580$ 12. $55\,555 \square 55\,554$

13. $59\,238 \square 59\,257$ 14. $10\,177 \square 10\,277$

Answers**Page 3**

1. 27 426 2. 17 245 3. 22 597 4. 18 045 5. 18 456
 6. 23 109 m 7. 34 609 m 8. 70 083 m 9. 90 981 km 10. 75 247 km
 11. no 12. no 13. yes 14. Chelsea 45 more 15. Mike £100

Page 4

1. 42 377 2. 65 510 3. 29 843 4. 20 244 5. 10 494
 6. 61 607 m 7. 42 760 m 8. 15 505 m 9. 4 999 km 10. 22 179 km
 11. no 12. yes 13. yes 14. English set by £455 15. Last year, by 9

Page 5

1. 26 900 2. 11 650 3. 14 500 4. 24 650 5. 35 000
 6. 27 800 7. 32 675 8. 40 500 9. 80 950 10. 63 500

Page 6

1. 18 500 2. 43 150 3. 12 500 4. 88 700 5. 23 700 6. 32 800
 7. 87 900 8. 32 600 9. 45 970 10. 63 995 11. 27 000 12. 6 400 km

Page 7

1. 4 200, 4 300, 4 400 2. 33 500, 35 500, 37 500
 3. 25 850, 26 050, 26 350 4. 87 000, 97 000, 107 000
 5. £45 000
 6. 1 410 mm

Page 8

1. 10 456, 10 466, 10 476 2. 20 680, 22 680, 24 680
 3. 21 090, 21 110, 21 140 4. 67 900, 68 000, 68 100,
 5. 54 430, 54 304, 45 403, 45 304, 45 034
 6. 13 651, 15 361, 15 631, 16 315, 16 513

Page 9

1. 24 142, 24 146, 24 621, 42 261, 42 421
 2. 06 006, 60 006, 60 060, 60 600, 66 000
 3. 15 234, 25 341, 35 142, 35 241, 45 321
 4. 35 378, 35 387, 35 738, 35 783, 35 873
 5. 19 357, 17 935, 17 359, 15 379, 13 579
 6. 21 201, 21 120, 12 102, 12 021, 12 012
 7. Superior, Victoria, Huron, Michigan, Great Bear
 8. all numbers between 47 681 and 47 689 inclusive 9. false 10. true
 11. 62 850 > 62 580 12. 55 555 > 55 554
 13. 59 238 < 59 257 14. 10 177 < 10 277