ORDERING NUMBERS

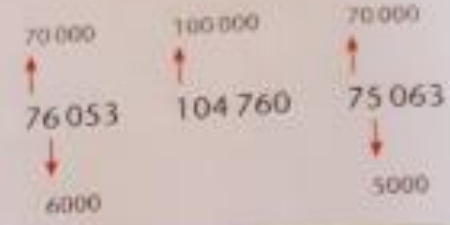
TARGET To compare and order numbers.

Example

Arrange 76 053, 104 760, 75 063 in ascending order.

Compare the highest value digits first, then the next highest and so on.

The correct order is 75 063, 76 053, 104 760.



A

Put these sets of numbers in order, starting with the smallest.

1. 13 173 17 313 11 737 13 337
2. 24 229 22 492 22 924 24 292
3. 18 555 15 585 18 518 15 558
4. 66 727 67 276 67 627 66 772
5. 39 353 35 593 35 935 39 335

Copy and complete.

6. 23 750 + ☐ = 29 750
7. 56 018 − ☐ = 16 018
8. 92 843 + ☐ = 93 543
9. 14 307 − ☐ = 13 807
10. 45 962 + ☐ = 105 962
11. 182 610 − ☐ = 174 610

B

Put these numbers in ascending order.

1. 116 017 117 106 11 670 11 607
2. 483 383 433 838 438 388 438 338
3. 744 774 747 747 744 747 747 477
4. 2 739 379 2 733 937 2 937 397 2 737 793
5. 5 265 256 5 256 565 5 255 665 5 262 525
6. 1 001 010 1 010 010 1 101 001 1 001 001

Copy and complete.

7. 721 386 − ☐ = 715 386
8. 530 274 + ☐ = 1 330 274
9. 2 104 509 − ☐ = 2 095 509
10. 1 649 328 + ☐ = 1 719 328
11. 3 015 694 − ☐ = 15 694
12. 6 908 830 + ☐ = 6 913 830

C

Work out the halfway number.

1. 83 960 ← ☐ → 84 100
2. 217 500 ← ☐ → 220 000
3. 1 560 000 ← ☐ → 1 630 000
4. 493 900 ← ☐ → 500 000
5. 9 850 000 ← ☐ → 10 850 000
6. 3 400 000 ← ☐ → 6 000 000

Copy and complete.

7. 2 380 000 − ☐ = 2 375 800
8. 14 175 937 − ☐ = 13 905 937
9. 30 572 100 − ☐ = 10 272 100
10. 6 059 283 − ☐ = 5 999 283
11. 24 366 150 − ☐ = 22 866 150
12. 10 000 000 − ☐ = 6 999 990

PLACE VALUE OF DIGITS 5

TARGET To identify the place value of each digit in a number.

The value of a digit depends upon its place in the number.

Example
3 579 268

	M	HTh	TTh	Th	H	T	U
	3	5	7	9	2	6	8
Value of digits	3 000 000	500 000	70 000	9000	200	60	8

A

Copy and complete by writing the missing number in the box.

1. 23 735 = 20 000 + 3000 + ☐ + ☐ + 5
2. 15 267 = ☐ + 5000 + ☐ + 60 + ☐
3. 42 491 = ☐ + ☐ + 400 + ☐ + 1
4. 78 024 = ☐ + 8000 + ☐ + ☐
5. 31 986 = 30 000 + ☐ + ☐ + ☐ + ☐

Give the value of each digit as in the first five problems.

6. 86 182
7. 97 043
8. 54 578
9. 29 310
10. 63 659
11. 48 021
12. 30 486
13. 12 903
14. 85 237
15. 73 194

B

Write down the value of the digit underlined.

1. 749 153
2. 14 637
3. 1 282 482
4. 961 790
5. 2 438 014
6. 4 830 569
7. 1 377 921
8. 123 246
9. 5 006 478
10. 1 665 705
11. 2 512 334
12. 497 697
13. 7 045 022
14. 3 780 856
15. 9 259 180

Add 4000 to:

16. 1 185 360
17. 329 511
18. 2 477 362

Add 2 000 000 to:

19. 15 178
20. 5 209 364
21. 37

Take 500 from:

22. 1 937 820
23. 275 138
24. 3 420 000

Take 30 000 from:

25. 2 625 000
26. 130 070
27. 5 000 000

C

Write the answers only.

1. 2 384 700 + 50 000
2. 11 509 264 − 3 000 000
3. 23 167 535 + 8000
4. 19 384 000 − 600 000
5. 52 186 + 2 000 000
6. 17 000 000 − 90 000
7. 9 999 999 + 13
8. 32 500 000 − 4000
9. 17 968 019 + 70 000

Add 60 000 to:

10. 1 053 827
11. 15 992 310
12. 86 247 200

Take 7000 from:

13. 27 312 649
14. 18 085 130
15. 2 000 000

Add 9 000 000 to:

16. 7 809 157
17. 23 790
18. 31 583 104

Take 800 000 from:

19. 11 390 000
20. 17 523 169
21. 20 000 000

ROUNDING

TARGET To round whole numbers to the required degree of accuracy.

Examples

Rounding to the nearest 10	427 536 → 427 540	(6 > 5, round up)
Rounding to the nearest 100	427 536 → 427 500	(3 < 5, round down)
Rounding to the nearest 1000	427 536 → 428 000	(5 so round up)
Rounding to the nearest 10 000	427 536 → 430 000	(7 > 5, round up)

A

Round the following numbers to the nearest:

10	100	1000	10 000	100 000
1 3276	7 5048	13 3710	19 51 829	25 183 500
2 4853	8 22 290	14 38 265	20 25 060	26 647 039
3 11 308	9 79 917	15 42 537	21 49 512	27 462 746
4 59 762	10 51 884	16 329 641	22 103 700	28 928 907
5 28 195	11 116 452	17 157 490	23 607 188	29 354 158
6 43 417	12 208 735	18 860 823	24 580 936	30 993 600

B

Round to the nearest:
a) 10 b) 1000.

1. 65 934
2. 34 207
3. 181 673
4. 409 045
5. 3 730 498
6. 1 027 521

Round to the nearest:
a) 100 b) 100 000.

7. 336 829
8. 682 192
9. 905 360
10. 561 947
11. 819 653
12. 953 270
13. 4 248 038
14. 2 727 416
15. 6 070 350
16. 3 994 083
17. 1 457 109
18. 9 303 456

Round to the nearest:
a) 10 000 b) million.

19. 2 826 000
20. 8 591 370
21. 1 387 294
22. 7 405 068
23. 9 940 952
24. 5 269 107

C

Give the area of each ocean rounded to the nearest:
a) 1 million square kilometres
b) 10 million square kilometres.

1. Pacific Ocean 155 557 000 km²
2. Atlantic Ocean 76 762 000 km²
3. Indian Ocean 68 556 000 km²
4. Southern Ocean 20 327 000 km²
5. Arctic Ocean 14 056 000 km²

Write the world population for each of the following years rounded to:
a) 10 million b) 100 million.

6. 1960 3 038 413 000
7. 1970 3 696 186 000
8. 1980 4 453 007 000
9. 1990 5 306 425 000
10. 2000 6 122 770 000
11. 2010 6 895 889 000

NEGATIVE NUMBERS 1

TARGET To use negative numbers and calculate intervals across zero.

Examples

Find the temperature which is 10°C more than −6°C.

Answer 4°C.



A

Copy and complete.

1. −4 −3 −2 ☐ ☐ ☐ 2
2. 6 4 2 0 ☐ ☐ ☐
3. −12 −9 −6 −3 ☐ ☐ ☐
4. 3 2 1 ☐ ☐ ☐ −3
5. −5 ☐ ☐ ☐ 3 5 7
6. 16 12 8 4 ☐ ☐ ☐

Put each set of numbers in order, smallest first.

7. 1, −6, −5, 3, 8, −2
8. −3, 4, 0, −1, 2, −6
9. −3, 6, 2, 1, 0, −7
10. 3, −8, −4, 2, −2, 5

B

Copy and complete.

1. 10 7 4 ☐ ☐ ☐
2. −6 −4 ☐ ☐ ☐ 4
3. −15 ☐ −5 ☐ 5 ☐
4. ☐ ☐ ☐ 2 6 10
5. 5 3 1 ☐ ☐ ☐
6. ☐ ☐ ☐ 2 5 8

Find the temperature which is:

7. 5°C more than 2°C
8. 8°C more than 10°C
9. 7°C more than −3°C
10. 4°C more than −4°C
11. 9°C more than −7°C
12. 6°C more than −8°C
13. 10°C less than 6°C
14. 7°C less than 2°C
15. 9°C less than 0°C
16. 12°C less than 4°C
17. 8°C less than 7°C
18. 6°C less than −5°C.

C



1. What temperatures are shown by the letters?
2. Give the difference in temperature between:
   a) C and D b) B and C c) A and E d) B and D
3. What would the temperature be if it was:
   a) at A and rose 24°C
   b) at D and fell 30°C
   c) at C and fell 18°C
   d) at B and rose 32°C?

Choose a 2 digit number and create your own number poster

(to make it a bit easier pick a number in the times tables up to 12 x 12 or try 3 digits for a challenge)

ANSWERS

Page 4 ORDERING

Page 5 PLACE VALUE OF DIGITS

Page 4

A

1 11 737	13 173	13 337	17 313	**6** 6000	**9** 500
2 22 492	22 924	24 229	24 292	**7** 40 000	**10** 60 000
3 15 558	15 585	18 518	18 555	**8** 700	**11** 8000
4 66 727	66 772	67 276	67 627		
5 35 593	35 935	39 335	39 353		

B

1 11 607	11 670	116 017	117 106	**7** 6000
2 433 838	438 338	438 388	483 383	**8** 800 000
3 744 747	744 774	747 477	747 747	**9** 9000
4 2 733 937	2 737 793	2 739 379	2 937 397	**10** 70 000
5 5 255 665	5 256 565	5 262 525	5 265 256	**11** 3 000 000
6 1 001 001	1 001 010	1 010 010	1 101 001	**12** 5000

C

1 84 030	**4** 496 950	**7** 4200	**10** 60 000
2 218 750	**5** 10 350 000	**8** 270 000	**11** 1 500 000
3 1 595 000	**6** 4 700 000	**9** 20 300 000	**12** 3 000 010

Page 5

A

1 20 000 + 3000 + 700 + 30 + 5
2 10 000 + 5000 + 200 + 60 + 7
3 40 000 + 2000 + 400 + 90 + 1
4 70 000 + 8000 + 20 + 4
5 30 000 + 1000 + 900 + 80 + 6
6 80 000 + 6000 + 100 + 80 + 2
7 90 000 + 7000 + 40 + 3
8 50 000 + 4000 + 500 + 70 + 8
9 20 000 + 9000 + 300 + 10
10 60 000 + 3000 + 600 + 50 + 9
11 40 000 + 8000 + 20 + 1
12 30 000 + 400 + 80 + 6
13 10 000 + 2000 + 900 + 3
14 80 000 + 5000 + 200 + 30 + 7
15 70 000 + 3000 + 100 + 90 + 4

B

1 50	**10** 5000	**19** 2 015 178
2 4000	**11** 300	**20** 7 209 364
3 200 000	**12** 90 000	**21** 2 000 037
4 700	**13** 7 000 000	**22** 1 937 320
5 2 000 000	**14** 700 000	**23** 274 638
6 30 000	**15** 9000	**24** 3 419 500
7 20	**16** 1 189 360	**25** 2 595 000
8 100 000	**17** 333 511	**26** 100 070
9 8	**18** 2 481 362	**27** 4 970 000

C

1 2 434 700	**8** 32 496 000	**15** 1 993 000
2 8 509 264	**9** 18 038 019	**16** 16 809 157
3 23 175 535	**10** 1 113 827	**17** 9 023 790
4 18 784 000	**11** 16 052 310	**18** 40 583 104
5 2 052 186	**12** 86 307 200	**19** 10 590 000
6 16 910 000	**13** 27 305 649	**20** 16 723 169
7 10 000 012	**14** 18 078 130	**21** 19 200 000

Page 6

A

1 3280	**9** 79 900	**17** 157 000	**25** 200 000
2 4850	**10** 51 900	**18** 861 000	**26** 600 000
3 11 310	**11** 116 500	**19** 50 000	**27** 500 000
4 59 760	**12** 208 700	**20** 30 000	**28** 900 000
5 28 200	**13** 4000	**21** 50 000	**29** 400 000
6 43 420	**14** 38 000	**22** 100 000	**30** 1 000 000
7 5000	**15** 43 000	**23** 610 000	
8 22 300	**16** 330 000	**24** 580 000	

B

1 65 930	66 000	
2 34 210	34 000	
3 181 670	182 000	
4 409 050	409 000	
5 3 730 500	3 730 000	
6 1 027 520	1 028 000	
7 336 800	300 000	
8 682 200	700 000	
9 905 400	900 000	
10 561 900	600 000	
11 819 700	800 000	
12 953 300	1 000 000	
13 4 248 000	4 200 000	
14 2 727 400	2 700 000	
15 6 070 400	6 100 000	
16 3 994 100	4 000 000	
17 1 457 100	1 500 000	
18 9 303 500	9 300 000	
19 2 830 000	3 000 000	
20 8 590 000	9 000 000	
21 1 390 000	1 000 000	
22 7 410 000	7 000 000	
23 9 940 000	10 000 000	
24 5 270 000	5 000 000	

C

1 156 000 000 km²	160 000 000 km²	
2 77 000 000 km²	80 000 000 km²	
3 69 000 000 km²	70 000 000 km²	
4 20 000 000 km²	20 000 000 km²	
5 14 000 000 km²	10 000 000 km²	
6 3 040 000 000	3 000 000 000	
7 3 700 000 000	3 700 000 000	
8 4 450 000 000	4 500 000 000	
9 5 310 000 000	5 300 000 000	
10 6 120 000 000	6 100 000 000	
11 6 900 000 000	6 900 000 000	

ANSWERS

Page 6 ROUNDING

Page 7 NEGATIVE NUMBERS 1

Page 7

A

1 −1 0 1	**7** −6, −5, −2, 1, 3, 8
2 −2 −4 −6	**8** −6, −3, −1, 0, 2, 4
3 0 3 6	**9** −7, −3, 0, 1, 2, 6
4 0 −1 −2	**10** −8, −4, −2, 2, 3, 5
5 −3 −1 1	
6 0 −4 −8	

B

1 10 7 4 1 −2 −5	**7** 3°C	**13** −4°C
2 −6 −4 −2 0 2 4	**8** −2°C	**14** −5°C
3 −15 −10 −5 0 5 10	**9** 4°C	**15** −9°C
4 −10 −6 −2 2 6 10	**10** 0°C	**16** −8°C
5 5 3 1 −1 −3 −5	**11** 2°C	**17** −1°C
6 −7 −4 −1 2 5 8	**12** −2°C	**18** −11°C

C

1 A −52°C	**2 a)** 20°C	**3 a)** −28°C
B −28°C	**b)** 22°C	**b)** −16°C
C −6°C	**c)** 84°C	**c)** −24°C
D 14°C	**d)** 42°C	**d)** 4°C
E 32°C		