B

Copy the table, writing each distance in figures.

City	Road Distance to London (miles)
1 Amsterdam	three hundred and six
2 Barcelona	nine hundred and thirty-nine
3 Berlin	six hundred and fifty-seven
4 Brussels	two hundred and three
5 Copenhagen	seven hundred and forty-one
6 Nice	eight hundred and thirty-five
7 Paris	two hundred and fifty-seven
8 Venice	nine hundred and twelve
9 Vienna	seven hundred and sixty-four
10 Zurich	five hundred and ninety-seven

Venice

The figures below show the distance between London and other places in Great Britain. Write each distance in words.

11 Aberdeen   887 km

12 Birmingham   195 km

13 Cardiff   247 km

14 Carlisle   506 km

15 Glasgow   661 km

16 Inverness   930 km

17 Liverpool   348 km

18 Newcastle   459 km

19 Nottingham   208 km

C

1 Copy and complete the table.

City	Distance to London (miles)	
Cairo	two thousand one hundred and eighty-three	
Tokyo	five thousand nine hundred and fifty-six	
Abu Dhabi	three thousand four hundred and four	
Singapore	six thousand seven hundred and forty-eight	
Beijing	five thousand and seventy-two	
Moscow		1557
Jerusalem		2246
New York		3469
Buenos Aires		6901
Delhi		4178

2 Use these digits. Make as many four-digit numbers as you can with a value of less than 5000.
Write the numbers:

2 **9** **0** **4**

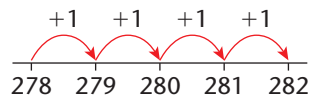a) in figures   b) in words.

Mastery

Write in words the number which is 40 more than 400.
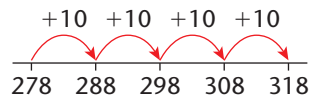
Write in figures the number which is one less than 1000.

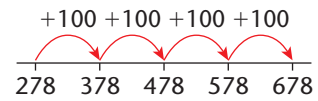**TARGET   To count in 1s, 10s and 100s from a given number.**

Examples

Count on 4 from 278.

+1 +1 +1 +1

278 279 280 281 282

Count on 40 from 278.

+10 +10 +10 +10

278 288 298 308 318

Count on 400 from 278.

+100 +100 +100 +100

278 378 478 578 678

A

Count on:

1. 5 from 42
2. 7 from 85
3. 9 from 26
4. 6 from 54
5. 4 from 79
6. 8 from 63

7. 30 from 20
8. 70 from 10
9. 50 from 50
10. 40 from 37
11. 20 from 19
12. 60 from 1

Write the next four numbers in each sequence.

13. 34, 35, 36, 37
14. 93, 94, 95, 96
15. 45, 46, 47, 48
16. 30, 40, 50, 60
17. 5, 15, 25, 35
18. 28, 38, 48, 58

B

Count on:

1. 8 from 130
2. 6 from 619
3. 9 from 363
4. 7 from 886

5. 50 from 470
6. 30 from 789
7. 60 from 946
8. 80 from 567

9. 200 from 534
10. 400 from 161
11. 500 from 399
12. 300 from 617

Write the next five numbers in each sequence.

13. 172, 173, 174, 175
14. 735, 745, 755, 765
15. 208, 308, 408, 508
16. 326, 327, 328, 329
17. 564, 574, 584, 594
18. 132, 232, 332, 432

C

Count on:

1. 5 from 1578
2. 9 from 4253
3. 11 from 8419
4. 8 from 3996

5. 40 from 7562
6. 90 from 2058
7. 70 from 9283
8. 60 from 5976

9. 500 from 6672
10. 800 from 3255
11. 600 from 2938
12. 900 from 8780

Write the next five numbers in each sequence.

13. 3194, 3195, 3196, 3197
14. 7854, 7853, 7852, 7851
15. 4034, 4044, 4054, 4064
16. 9378, 9368, 9358, 9348
17. 1536, 1636, 1736, 1836
18. 6591, 6491, 6391, 6291

Mastery

Find a number which you will land on if you start at 0 and count on:

(a)   in boths 1s and 10s   (b)   in both 10s and 100s

(c)   in 1s, 10s and 100s

TARGET   To subtract numbers with up to 3 digits.

If the digit in the top row is smaller than the digit below it, borrow 10 from the column to the left.

Examples

```
  H  T  O
     6  1
  8  7̶  2        2 − 8
− 1  5  8        10 from 70 (7̶, 2)
  7  1  4        12 − 8 = 4
```

```
  H  T  O
  5  1
  6̶  1  8        10 − 50
− 3  5  6        100 from 600 (6̶, 1)
  2  6  2        110 − 50 = 60
```

A

Copy and complete.

1   48   **6**   99
     − 12   − 40

2   76   **7**   58
     − 34   − 26

3   57   **8**   95
     − 23   − 71

4   85   **9**   65
     − 45   − 24

5   64   **10**   78
     − 32   − 53

11 There are 68 passengers on a bus. 35 are upstairs. How many passengers are downstairs?

12 Omar has 96p. He spends 55p. How much does he have left?

13 There are 52 complete weeks in a year. 21 have passed before Paula's birthday. How many weeks is it to the end of the year?

B

Copy and complete.

1   65   **6**   364
     − 49   − 207

2   81   **7**   781
     − 52   − 546

3   92   **8**   297
     − 35   − 149

4   80   **9**   823
     − 37   − 273

5   73   **10**   954
     − 46   − 716

11 Four coaches carry 240 children altogether. 126 children travel on the first two coaches. How many are on the last two coaches?

12 A shop has 325 customers on Monday and 87 fewer on Tuesday. How many customers does the shop have on Tuesday?

13 A newsagent has 750 newspapers. 463 are delivered to people's homes. How many are on sale in the shop?

C

Copy and complete.

1   2837   **6**   6915
     − 1562   − 2319

2   3764   **7**   7463
     − 1813   − 4593

3   4892   **8**   4736
     − 2954   − 1347

4   5526   **9**   9282
     − 1294   − 7690

5   8358   **10**   8505
     − 3851   − 2783

11 A trawler catches 1326 fish in one net and 718 fewer in a second net. How many fish are caught in the second net?

12 There are 6863 entries to a competition. 2147 have the right answers. How many of the competition entries have wrong answers?

Mastery

Fill in the missing numbers:

```
    4  9  1
 −  _  _  _
    3  7  1
```

```
    7  6  7
 −  _  _  _
    6  1  4
```

TARGET   To recall and use ×/÷ facts for 8.

A

Double and double again to multiply by 4.

1. 5
2. 11
3. 3
4. 7
5. 10
6. 4
7. 9
8. 6
9. 12
10. 8

Double, double and double again to multiply by 8.

11. 10
12. 6
13. 2
14. 12
15. 7
16. 5
17. 8
18. 11
19. 4
20. 9

21. Copy and complete by doubling.

TIMES TABLES		
Twos	Fours	Eights
2		
4		
6		
8		
10		
12		
14		
16		
18		
20		
22		
24		

B

Write the answers only.

1. 4×8
2. 6×8
3. 12×8
4. 9×8
5. 5×8
6. 10×8
7. 7×8
8. 3×8
9. 11×8
10. 8×8
11. $40 \div 8$
12. $8 \div 8$
13. $88 \div 8$
14. $56 \div 8$
15. $32 \div 8$
16. $72 \div 8$
17. $16 \div 8$
18. $64 \div 8$
19. $96 \div 8$
20. $48 \div 8$

Copy and complete.

21. $\square \times 8 = 56$
22. $\square \times 8 = 16$
23. $\square \times 8 = 72$
24. $\square \times 8 = 96$
25. $\square \times 8 = 48$
26. $\square \times 8 = 24$
27. $\square \times 8 = 80$
28. $\square \times 8 = 64$
29. $\square \div 8 = 4$
30. $\square \div 8 = 7$
31. $\square \div 8 = 10$
32. $\square \div 8 = 6$
33. $\square \div 8 = 11$
34. $\square \div 8 = 8$
35. $\square \div 8 = 5$
36. $\square \div 8 = 9$

C

Write the answers only.

1. 30×8
2. 90×8
3. 40×8
4. 80×8
5. 60×8
6. 20×8
7. 50×8
8. 70×8
9. $640 \div 8$
10. $240 \div 8$
11. $480 \div 8$
12. $960 \div 8$
13. $400 \div 8$
14. $560 \div 8$
15. $880 \div 8$
16. $720 \div 8$

Work out by multiplying by 8 and doubling.

17. 4×16
18. 7×16
19. 3×16
20. 6×16
21. 11×16
22. 9×16
23. 5×16
24. 10×16
25. 8×16
26. 12×16

27. Maurice earns £8 per hour. How much does he earn if he works 37 hours in a week?

28. There are eight cookies in each packet.
    a) How many cookies are needed to make 68 packets?
    b) How many packets can be made from 280 cookies?

29. What is 8 times 8 times 8?

Mastery

Is there a way you can use your knowledge of the 4 x table to work out your 8 x tables?

TARGET To develop a written method to divide TO by O.

Examples

$72 \div 4$
Repeated subtraction
(Chunking)

```
  7 2
− 4 0   (10 × 4)
  3 2
− 3 2   (8 × 4)
    0
```
Answer *18*

$72 \div 4$
Short division

```
   1 8
4)7³2
```

Step 1. $7 \div 4 = 1$ remainder 3

Step 2. $32 \div 4 = 8$

Answer *18*

A

Copy and complete.

1 $85 \div 5$

```
    8   5
−  ☐☐   (10 × 5)
   ☐☐
−  ☐☐   (☐ × 5)
    0
```
Answer = ☐☐

2 $46 \div 2$

```
    4   6
−  ☐☐   (20 × 2)
   ☐☐
−  ☐☐   (☐ × 2)
    0
```
Answer = ☐☐

Work out

3 $32 \div 2$ **9** $45 \div 3$

4 $55 \div 5$ **10** $56 \div 4$

5 $48 \div 4$ **11** $54 \div 2$

6 $33 \div 3$ **12** $39 \div 3$

7 $70 \div 5$ **13** $60 \div 5$

8 $78 \div 2$ **14** $64 \div 4$

B

Work out

1 $64 \div 2$ **9** $90 \div 5$

2 $75 \div 5$ **10** $60 \div 4$

3 $51 \div 3$ **11** $52 \div 2$

4 $90 \div 2$ **12** $84 \div 3$

5 $92 \div 4$ **13** $96 \div 2$

6 $65 \div 5$ **14** $68 \div 4$

7 $58 \div 2$ **15** $96 \div 3$

8 $99 \div 3$ **16** $72 \div 2$

17 Three friends equally share 42 sweets. How many do they have each?

18 Four children sit at each table. How many tables are needed for 52 children?

19 Seventy-four apples are shared equally between two barrels. How many apples are there in each barrel?

20 How many £5 notes make £95?

C

Work out

1 $129 \div 3$ **9** $135 \div 5$

2 $170 \div 5$ **10** $116 \div 2$

3 $108 \div 4$ **11** $108 \div 9$

4 $144 \div 2$ **12** $184 \div 4$

5 $120 \div 8$ **13** $117 \div 3$

6 $178 \div 2$ **14** $130 \div 2$

7 $128 \div 4$ **15** $84 \div 6$

8 $91 \div 7$ **16** $104 \div 8$

17 Ricky is half way through his book. It has 152 pages. How many pages has he read?

18 Each tray holds eight plants. How many trays are needed for 174 plants?

19 125 coins are shared equally between five bags. How many coins are there in each bag?
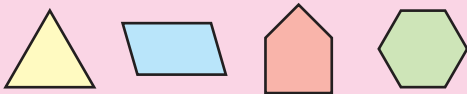
Mastery

Write the correct sign < > or = in each circle below:

$85 \div 5$ ◯ $84 \div 4$

$93 \div 3$ ◯ $62 \div 2$

B

Look at the shapes in Section A.
Give the letter of the following shapes:

1. a quadrilateral with four right angles and two pairs of equal sides

2. a triangle which is symmetrical but does not have all sides equal

3. a hexagon which is symmetrical

4. a pentagon with all sides equal

5. a non-polygon with one straight side

6. a shape with four pairs of equal sides

7. a quadrilateral with no right angle and two pairs of equal sides

8. a triangle with all its sides equal

9. a pentagon with three right angles

10. a triangle with an obtuse angle

11. a hexagon with all sides equal

12. a right-angled triangle

13. a quadrilateral with three obtuse angles and no equal sides

14. a non-polygon with two straight sides

15. a quadrilateral with four equal sides

16. an octagon with not all sides equal

17.

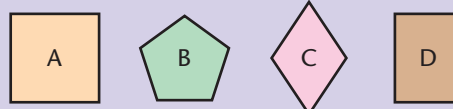Which shape is the odd one out?
Give a reason for your answer.

C

Look at the shapes in Section A.
Give the letter of all the shapes which:

1. have 6 or more sides

2. have 2 or more right angles

3. have no line of symmetry

4. have 2 or more pairs of parallel sides

5. are quadrilaterals with no right angle

6. are non-polygons

7. have more than one line of symmetry

8. have 2 or more acute angles.

9. Copy the Carroll diagram.
Sort the shapes in Section A by writing the letters in the right places.

	more than 4 sides	not more than 4 sides
symmetrical		
not symmetrical		

10.

Class 3 were asked to choose the odd one out from these four shapes. Chris chose B. Molly chose D. They were both able to give a good reason for their choice.
What were the two reasons given?

Mastery

The word 'polygon' is made from two words: 'poly' and 'gon'.

If 'gon' means 'angles', what might 'poly' mean?

Use this to explain why a polygon cannot have a curved edge.