

Comparing numbers to 100 000 000

Year 6

- 1 Place these numbers in ascending order.

25 780 065, 26 075 056, 25 870 650, 25 575 605

- 2 Place these numbers in descending order.

69 093 259, 66 093 258, 69 930 258, 66 250 903

- 3 Add the numbers which belong on this number line

40 125 000, 43 250 025, 49 309 874, 55 093 874, 46 355 000

42 200 000

48 668 630

- 4 If rounding to the nearest 5 million, circle the numbers which round to fifty million.

48 092 300, 44 092 300, 49 509 874, 49 093 874, 55 355 000

- 5 Use the relationship signs =, <, > to make the following expressions correct.

a 16 860 125 ____ 18 860 125

b 22 879 012 ____ 22 789 012

c 2 064 777 ____ 2 000 000 + 60 000 + 4 000 + 700 + 70 + 7

d 95 660 100 ____ ninety five and a half million

e eighteen million, two hundred and thirty thousand, four hundred and two ____ 18 230 402

f 1 007 700 ____ 10 700 077

- 6 Complete these expanded numbers.

a 35 600 050 = 30 000 000 + ____ + ____ + 50

b 12 750 200 = $10^7 \times 1$ + 2 000 000 + ____ + ____ + ____

c 3 765 809 = 3×10^6 + ____ + ____ + 5 000 + ____ + ____

d 94 000 575 = ____ + ____ + 500 + 70 + 5

- 7 Tick the ones which have an answer in the tens of millions.

a How many km between Venus and Earth?

b How many seconds in a day?

c How many slices of bread do I eat in a year?

d How many times does my heart beat in a year?

e How many people in the United Kingdom?

f How many kilometres to the Sun?



Challenge!

Find distances to the Sun and other planets by using Internet sites or an encyclopaedia. Remember to find answers in kilometres, not miles.

Earth to Venus

Earth to Mercury

Earth to Sun

Number systems



Egyptian Number System

1	10	100	1000
2	3	1	6
= 2 3 1 6			



Babylonian Number System

60	10	1
(2 × 60)	(3 × 10)	(3)
= 153		



Hindu-Arabic Number System

Digits 0 – 9

They are used in a place value system – ones, tens, hundreds, thousands, ten thousands, hundred thousands, millions etc.

3 654



Roman Number System

I = I	2 = II	3 = III	
5 = V	10 = X		
50 = L	40 = XL		
100 = C	500 = D		
1 000 = M			
MM	DCC	LX	IV
2 000	700	60	4
= 2 764			

1 From which two ancient countries did the Hindu-Arabic digits originate?

2 Complete the following table.

Hindu-Arabic	Babylonian	Egyptian	Roman
a 3			
b 7			
c 15			
d 48			
e 135			
f 350			

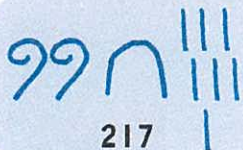
3 Why would the Egyptian, Roman or Babylonian Systems be of little use to us today?

4 What digit does the Hindu-Arabic system have, that other systems don't have?

Number facts review

Year 6

1 Record the next three Ancient Egyptian numbers.



2 Count by tens in Roman numerals.

a XXIV, XXXIV, _____, _____, _____.

b CXLVIII, _____, _____, _____, _____.

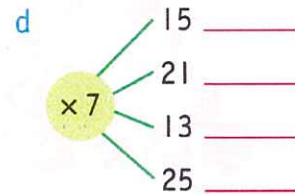
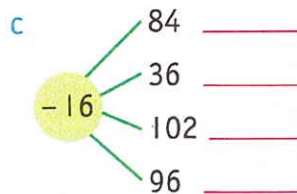
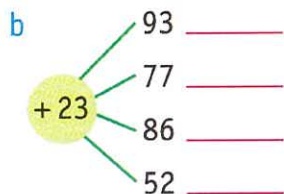
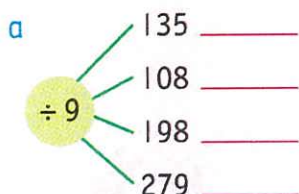
c MCMXCII, _____, _____, _____, _____.



3 Count on by fives in the Babylonian system.



4 Use the Hindu-Arabic system.



5 Remember the short methods in Hindu-Arabic.

÷ 10

- a 450 _____
- b 3570 _____
- c 46 _____
- d 189 _____
- e 1300 _____

× 5

- f 16 _____
- g 80 _____
- h 32 _____
- i 125 _____
- j 360 _____

+ 3, × 6

- k 8 _____
- l 11 _____
- m 9 _____
- n 12 _____
- o 0 _____

group easy numbers

- p $12 + 26 + 8 =$ _____
- q $25 + 84 + 15 =$ _____
- r $95 + 13 + 5 + 17 =$ _____
- s $160 + 38 + 2 =$ _____
- t $57 + 320 + 80 =$ _____

6 Using the number 1 357 008:

- a add 20 000. _____
- b subtract 300. _____
- c add 130. _____
- d divide by 3. _____
- e divide by 6. _____
- f divide by 2. _____
- g multiply by 5. _____
- h subtract 300 000. _____

- 7
- a $300 \times 40 =$ _____
 - b $600 \times 30 =$ _____
 - c $150 \times 300 =$ _____
 - d $700 \times 60 \times 0 =$ _____
 - e $50 \times 9 \times 200 =$ _____
 - f $11 \times 40 \times 5 =$ _____