



Keep-uppI Maths Workout

Year 6 - Pack 1 **Answers**



KPIs for Term 1 (part 1)

Read and write numbers up to 10,000,000

Compare and order numbers up to 10,000,000

Multiply and divide numbers by 10, 100 and 1000



Read and write numbers up to 10,000 Workout

Workout A

Read these numbers and write using words.

3,456,789

Three million, four hundred and fifty-six thousand, seven hundred and eighty-nine

4,040,400

four million, forty thousand, and four hundred

8,080,008

eight million, eighty thousand, and eight

9,109,256

nine million, one hundred and nine thousand, two hundred and fifty-six

Read these numbers and write using numerals.

Two million, twenty-eight thousand, three hundred and one

2,028,301

four million, four thousand and four

4,004,004

Five million, five hundred thousand and fifty

5,500,050

Six million, sixty thousand and six hundred

6,060,600

Compare and order numbers up to 10,000 Workout

Workout B

Compare the numbers using $<$, $>$ or $=$

3,412,793 $>$ 2,378,168

6,700,070 $>$ 6,700,007

7,512,786 $>$ 5,412,739

5,123,378 $>$ 945,762

4,141,411 $>$ 4,114,411

589,602 $<$ 3,989,831

5,208,638 $<$ 5,208,797

2,067,090 $>$ 709,206

Order the numbers by matching the numbers with the order

3,200,000	1 st
5,050,500	2 nd
4 million	3 rd
689,750	4 th
3,165,000	5 th
Nine hundred thousand	6 th

Largest
Smallest

Multiply and Divide numbers by 10, 100 and 1000 Workout

Workout C

$4.56 \times 10 = 45.6$

$0.03 \times 10 = 0.3$

$1.03 \times 100 = 103$

$4.56 \times 100 = 456$

$0.3 \times 100 = 30$

$3.001 \times 100 = 3.001$

$4.56 \div 10 = 0.456$

$0.03 \times 1000 = 30$

$1.03 \div 10 = 0.103$

$45.6 \div 100 = 0.456$

$0.3 \div 100 = 0.003$

$10.3 \div 100 = 0.103$



Comparing Numbers

You need:

Comparing Numbers template (below)

Two sets of cards 0 - 9 (cards at the back of the pack.)

To play:

Players start with 3 points each.

Shuffle the two sets of cards together. Put the cards in a deck face down.

Take it in turns to pick a card and place the digit in one of the boxes.

Keep repeating.

, , > , ,

The statement must remain true.

The first player to be unable to place their digit loses a point.

Is it possible to always complete all the boxes?

Explain your thinking.

To win

When a player loses all their points, the other player wins.



Missing Number Workout

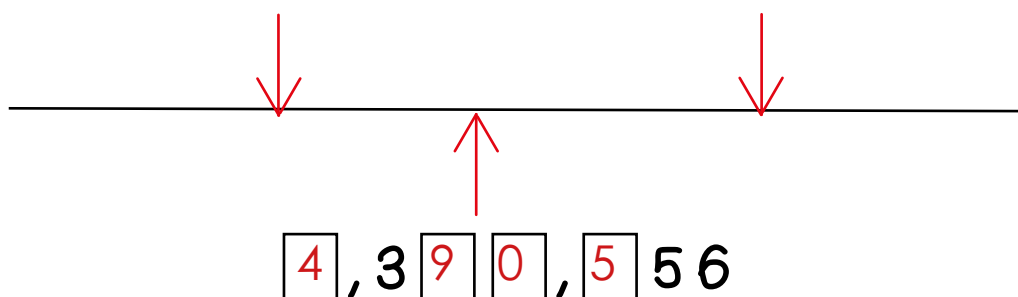
Workout E

Put digits in the empty boxes so the numbers are in order from smallest to largest.

Possible
Solution

4, 3 9, 5

4, 9 , 8 3



Are there any boxes that it is impossible to put a 2 in?
Why?

Are there any boxes that could have any of the digits in them?

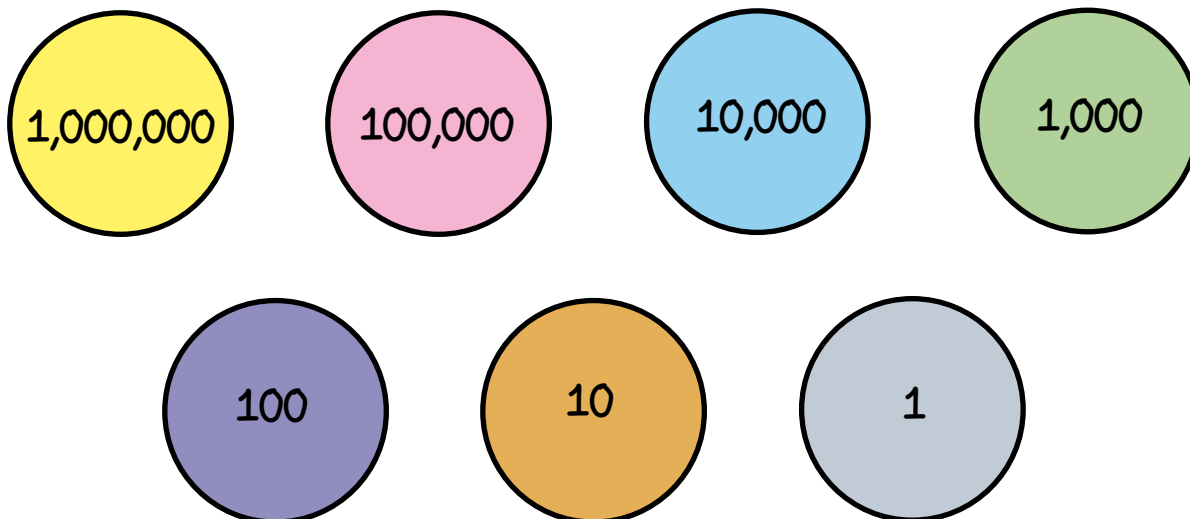
Now complete them altogether using the digits
0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.



Investigating Millions

Workout F

Use 10 Place Value Counters to create different 7-digit numbers.
You are only allowed to use a maximum of three counters with the same value, in each number.



Write each number using words and numerals.
Investigate the range of numbers possible.

Many possibilities:

Largest - 3,331,000 three million, three hundred and thirty-one thousand

Smallest - 1,333 - one thousand three hundred and thirty-three



Word Problems

- Colin runs 4.25km on Monday.
He runs 6,500m on Tuesday
How far did he run altogether? 10.75km

- Coco walks 0.6 km on Monday.
She walks 872 m on Tuesday.
Which day did she walk the furthest? How far? Tuesday
222m

- Bag A weighs 1.02 kg.
Bag B weighs 409 g less than Bag A.
How much does Bag B weigh? 611g
or 0.611kg

- The capacity of a bottle is 1.25 litres.
The capacity of a vase is 65 ml.
How much water is needed to fill both the bottle and the vase? 1315ml
or 1.315 litres

- The height of a house is 5.2 m.
Colin is making a scale model of the house.
The scale model is 100 times smaller.
Calculate the height of the scale model in a) metres and
b) centimetres 0.052m
or 5.2cm

- Coco flies two million, three and five thousand, seven hundred
and six metres.
How far has she flown in kilometres? 2,305.706km

Create your own word problems involving multiplying and dividing decimals
by 10, 100 and 1,000.



Matching Workout

Workout H

Match the numbers.
Fill in the missing buddies.

Four million and two thousand		4,000,200
Four million and two hundred		4,202,000
Four million and two hundred thousand		4,200,200
Four million, two hundred and two thousand		4,000,002
Four million, two thousand and two hundred		4,200,000
Four million, two hundred thousand, two hundred		4,002,000
Four million and two		4,002,200

Match the calculations with the correct solution.
Fill in the missing buddies.

$3.4 \div 10$		4.3
e.g. $43 \div 10$		0.34
$430 \div 1000$		34
3.4×10		3.4
$3.4 \div 100$		0.43
0.034×100		340
0.34×1000		0.034

Create your own Matching Workout .