### Year 6 Home Study Pack

Name:



SC SATs Companion Maths

www.satscompanion.com

#### Place Value



Write down the numerical value of the underlined digits below.

#### Write the following numbers in numerals and words

Millions			Thousands			Ones		
Н	Т	0	н	Т	0	н	Т	0

**Answer:** 

Millions			Thousands			Ones		
н	Т	0	н	т	0	н	Т	0

**Answer:** 

Millions			Thousands			Ones		
н	т	0	н	т	0	н	Т	0

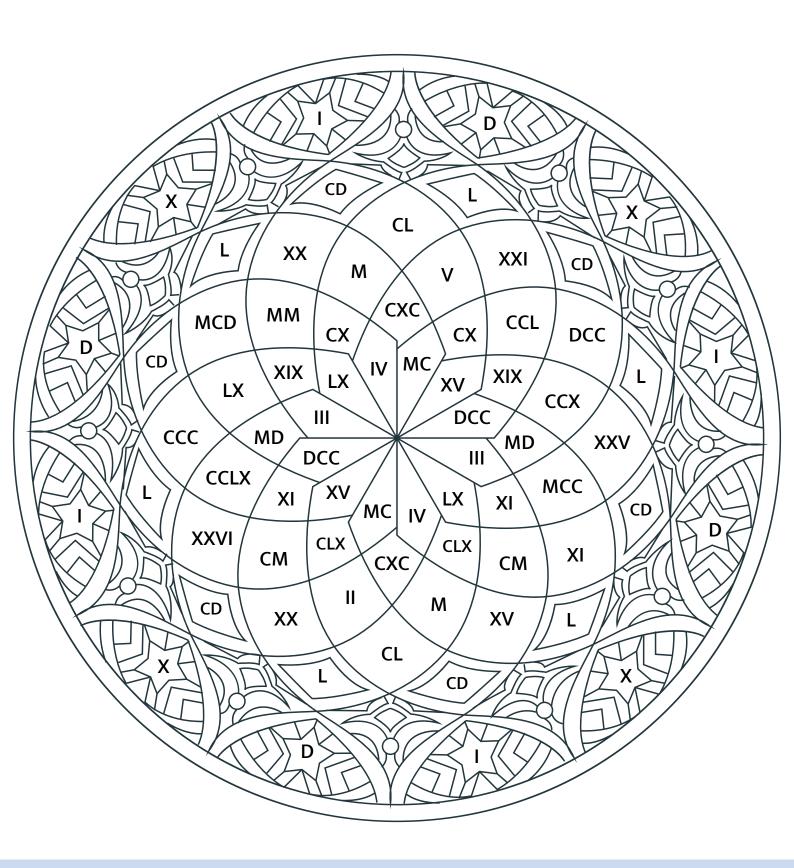
**Answer:** 

Millions			Thousands			Ones		
Н	т	0	нто		н	Т	0	

**Answer:** 

#### Colour by Roman Numeral

Match the numeral with its equivalent value in number and colour in the area according to the colour stated in the colour key.



# Colour by ROMAN NUMERAL

#### **COLOUR KEY**

150 = Red	900 = Yellow	190 = Green
300 = Red	260 = Yellow	160 = Green
20 = Red	60 = Yellow	11 = Green
26 = Red	2000 = Yellow	1500 = Green
200 = Red	1000 = Yellow	19 = Green
1400 = Red	5 = Yellow	110 = Green
21 = Red	250= Yellow	
25 = Red	210 = Yellow	
11 = Red	1200= Yellow	
15 = Red	2 = Yellow	
1100 = Pink	1 = Orange	50 = Purple
15 = Pink	500 = Orange	400 = Purple
700 = Pink	10 = Orange	
3 = Pink		
60 = Pink		
4 = Pink		

#### Note:

- Some numerals appear more than once
- For other blank areas, you can choose a colour of your choice.

# **SC** SATs Companion

## 920,000 | 930,000 | 940,000 | 950,000 | 960,000 | 970,000 | 980,000 850,000 | 860,000 | 870,000 | 880,000 | 890,000 | 900,000 | 910,000 780,000 | 790,000 | 800,000 | 810,000 | 820,000 | 830,000 | 840,000 640,000 | 650,000 | 660,000 | 670,000 | 680,000 | 690,000 | 700,000 570,000 | 580,000 | 590,000 | 600,000 | 610,000 | 620,000 | 630,000 500,000 | 510,000 | 520,000 | 530,000 | 540,000 | 550,000 | 560,000 710,000 | 720,000 | 730,000 | 740,000 | 750,000 | 760,000 | 770,000

ROUND TO THE NEARST TEN THOUSAND

#### Rounding Number Placemat

This activity is perfect to try with a friend or family member. Boost your rounding skills by rounding to the nearest ten thousand!



#### You will need:

Rounding number placemat

Online number generator (Make sure numbers are set between 500,000 to 1,000,000.

http://numbergenerator.org/randomnumbergenerator/500000-1000000

Some small counters for each player. Each player needs a different colour. Improvise with sweets or a random small object if you do not have any counters. (2 players max)

#### Instructions:

Using the number generator, on each player's turn, press go, to generate a number. The number that is shown, has to be rounded to the nearest ten thousand. Finally place your counter on the number on the board which is closest to it. To win you must be the first player to make a line of four in a row (horizontally, vertically, or diagonally) on the game board.

#### **Percentages**





#### **Question 1**

You have been given £20 for achieving a high score in your test.

The £20 must be spent in a video game store.

All games are 30% off.

Each game is £9

Work out how many games you can purchase with the £20 note.

#### **Question 2**

#### Find:

1% of 700

60% of 400

25% of 400

10% of 500

50% of 60

25% of 60

10% of 60

1% of 60

50% of 200

25% of 200

10% of 200

1% of 200

#### **Trip To The Store**



#### MONEY PROBLEM SOLVING

Work our the answers to the problems below. Remember to show your workings out.

	1	THE THE PARTY OF T	
Trousers <b>£23.86</b>	T-shirt <b>£12.00</b>	Trainers <b>£39.99</b>	Hat <b>£15.45</b>
£23.00	£12.00	£37.77	£13.43
4	01		
Skirt <b>£18.00</b>	Dress <b>£29.95</b>	Earrings <b>£9</b>	Handbag <b>£25</b>
£18.00	£27.93	LY	EZJ

- 1. How much would it cost to buy a pair of trousers, a t-shirt and a pair of trainers.
- 2. How much would it cost to buy a skirt, a handbag and a pair of earrings?
- 3. How much more than a skirt does a dress cost?
- **4.** Tyler bought a hat and a pair of trousers with a £50 note. How much change did he get back?
- **5.** How much less than a skirt does a pair of trainers cost?
- **6.** Which is cheaper, two dresses or three skirts? How do you know?
- 7. How many pairs of earrings can you buy for the cost of a pair of trainers?
- **8.** Samantha has £60. She bought a handbag, a skirt and a pair of earrings. How much change did she get back?



#### **Fun with Factors**

Factor Trees at Crystal Palace Park

Below are some different numbered trees from Crystal Palace Park. But they need to be be factorised to help them grow!

Help the park rangers by finding the common factors for these numbers.

21 42	
64 36	
25 65	
90	

#### **EQUATIONS CHALLENGE**

Show your working out!

1. 
$$(11 + 2) \times (24 \div 3) =$$

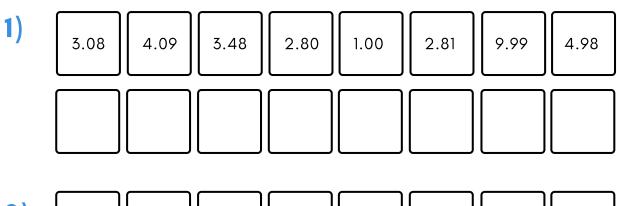
$$2.36 \div 9 + 24 =$$

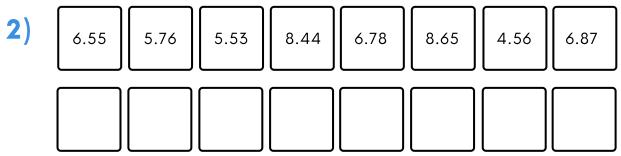
$$3.9 \times 6 - 24 + 16 =$$

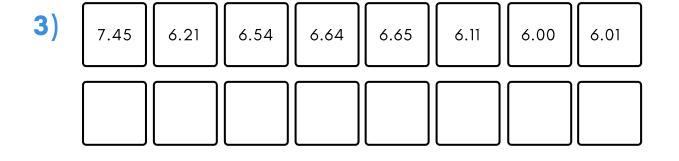
$$4.(15 + 6) + 16 - 10 =$$

### ORDERING NUMBERS

Instructions: Put these numbers in order, smallest first.







 4)
 3.54
 3.67
 4.67
 3.44
 3.45
 3.32
 3.13
 3.00

### ORDERING NUMBERS

Name: Date:

Instructions: Put these numbers in order, smallest first.

 3.432

 3.283

 3.433

 3.704

**2)** 1.982 1.202 1.31 0.96

 4.291
 4.725
 4.38
 4.173

**4)**6.24
6.184
6.426
6.109

 5)
 2.318
 2.293
 2.52
 2.9
 2.68

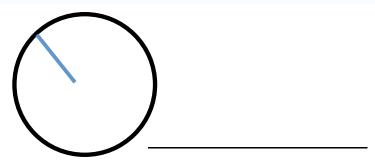
 6)
 1.038
 0.378
 2.7
 1.483
 2.263

 7)
 1.39
 0.218
 1.148
 2.14
 0.75

### **QUICK MATHS**WORKSHEET



1) What is the name of the blue line in this circle?



2) Turn this improper fraction into a mixed number.

3) How many years in  $2\frac{1}{2}$  decades?

4) One bar of chocolate costs £1.30. What is the cost of 11 bars?

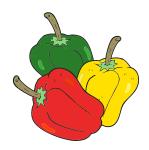
5) 10348 - 1000 =

6) 249 + 1500 =

7) 455 x 4 =

#### **Money Calculations**

This is the price of peppers and broccoli



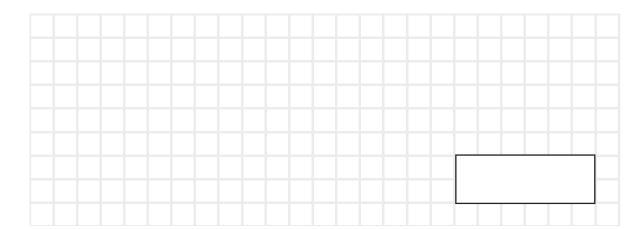
Peppers 38p each



Broccoli £1.20 for 1kg

Lin buys **seven peppers** and **one and a half kilograms** of **broccoli**.

How much does she spend altogether?



Oranges costs 25p each.

How many oranges can Lin buy for £1.50?



#### DRILL EQUATIONS



**Directions:** Solve as many equations as you can quickly. Time yourself to see how long it takes you!

$$1) 548 + 497 =$$

$$2) 0.3 + 9.3 =$$

$$3)3401 + 703 =$$

4) 
$$108 \div 9 =$$

$$6) 3.04 + 12.5 =$$

$$7) 5.32 \times 1000 =$$

9) 
$$72 \times 100 =$$

$$10) 0.31 \times 25 =$$

14) 
$$5.1 \div 4.4 =$$

$$16)63 \div 9 =$$

$$21) 23 \times 100 =$$

$$23) \ 0.3 + 3.4 =$$

$$24) 36 \div 6 =$$

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