

# KS2 Mathematics

## 10 4 10

"10 minutes a day for 10 days"

Level 5 Answers

Your child will be sitting their KS2 SATs just after the Easter break. They have worked hard in their lessons at school, but a break of two weeks could hinder them and stop them from achieving their best.

This package has been designed to help your child stay sharp in their maths and practise some of the work they have been doing in school.

Each page in the booklet has about 10 minutes work. They should do a page a day (try not to let them leave it to the last minute!).

Hope it helps, if there are any problems contact the class teacher as soon as possible after the EASTER Break.



## Day 1

### Mental Questions

1. 6.35
2. 2500 (there are 1000m in a kilometre -  $1000 \times 2.5$ )
3. 4
4. £6.00 ( $£2.40 \div 8 = 30\text{p}$ , so 20 cakes are  $30\text{p} \times 20$ )
5. 150

### SATs Questions

1. 20
2. 0.21
3. 12216

x	500	9	
20	10000	180	
4	2000	36	

$$10000 + 2000 + 180 + 36 = \mathbf{12216}$$

4. 0.65 and 0.35
5. 54cm

Working

$$15 \times 3 = 45$$

$$153 - 45 = 108$$

$$108 \div 2 = \mathbf{54\text{cm}}$$

# Day 2

## Mental Questions

1. 39 (65 ÷ 5 = 13 then 13 × 3 = 39)
2. - 8°C
3. 6.4
4. 330cm<sup>2</sup> (11cm × 30cm)
5. 0.4 (2/5 = 4/10)

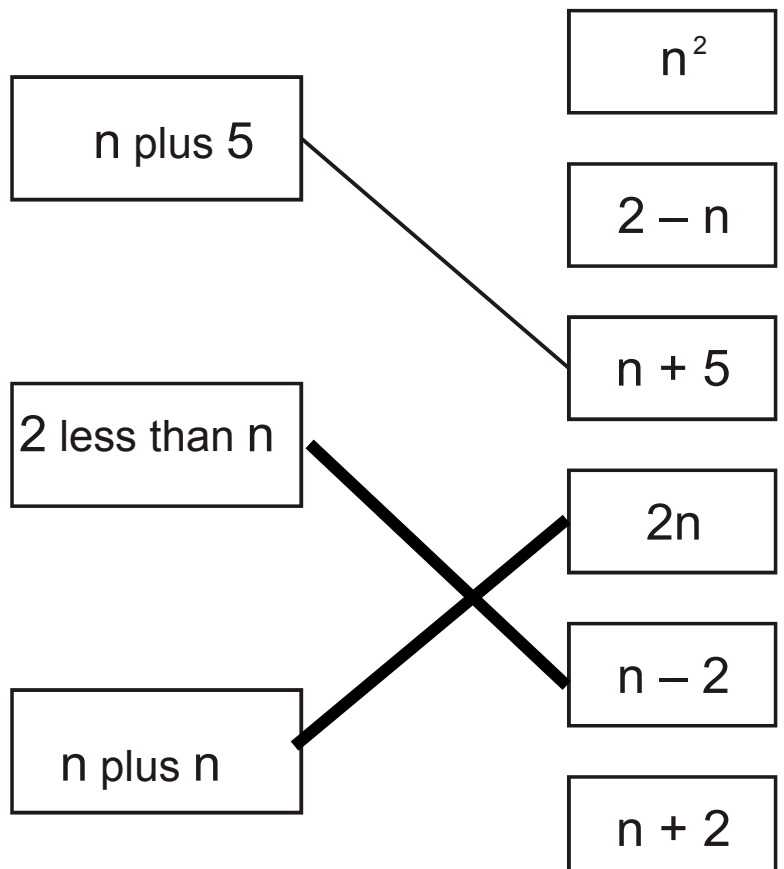
## SATs Questions

1. Explanation to recognise that each number is one more than a multiple of 3.  
- it starts at 1 and then adding 3 so it misses multiples of 3.

2.

$n$	$5n - 2$
20	<b>98</b>
<b>8</b>	38

3.



## Day 3

### Mental Questions

1. 0.045 (move each digit two places to the right)
2. 15000
3. 4600 ( $23 \times 2 = 46$ ,  $46 \times 100$ )
4. 15 ( $h - 2$ , therefore  $17 - 2 = 15$ )
5.  $25^\circ$  (calculation:  $180^\circ - (65^\circ + 90^\circ)$ )

### SATs Questions

1.  $y = 145^\circ$  (on a straight line angles equal  $180^\circ$   
 $180^\circ - 35^\circ = 145^\circ$ )  
 $x = 55^\circ$  (angles in a triangle add up to  $180^\circ$   
 $180^\circ - (90^\circ + 35^\circ) = 55^\circ$ )
2. 9 (three-quarters of a turn)
3.  $18^\circ$  (working;  $60^\circ + 12^\circ = 72^\circ$   
then  $90^\circ - 72^\circ = 18^\circ$ )

Angles in an  
equilateral triangle  
are  $60^\circ$  each

## Day 4

### Mental Questions

1. 7
2. 5500 (1000ml = 1 litre)
3. 8
4. 490 (suggest using a number line, counting on)
5.  $\frac{3}{6}$  or  $\frac{1}{2}$

### SATs Questions

1. (a) An answer between 21 to 26 inclusive.  
(b) An explanation which recognises that Tony's snails are a quarter of 80 and that Gemma's snails are half of 36, so that Tony found more, eg  
'Tony found 20 and Gemma found only 18';  
'Quarter of 80 is more than half of 36'.
2. (a) 40  
(b) Answer in the range 12 to 13km inclusive.  
(c) An explanation which indicates that after 1 hour she has travelled more than 20km and/or she has travelled less than 20km in the second hour, eg  
'She did about 40 km and it was about 22 in the first hour';  
'Half and half would be 20-20, but she does more than 20 then less than 20';  
'It goes to 23 in the first hour'.

## Day 5

### Mental Questions

1. 0.07
2. 67 (  $201 \div 3$  )
3. 450 (  $600 \div 4 \times 3$  )
4. 11 (  $35p \times 10 = \text{£}3.50$ , plus one more  $\text{£}3.85$  )
5. 7 (  $42 \div 6$ , a regular hexagon has 6 equal sides )

### SATs Questions

1. Working that shows that there are 2 or 2.2lbs in a kilogram.

E.g.  $24 \times 2.2$  for apples

"There's more than 2 pounds in a kilogram so it will be about 50p for a kg of apples. So, Mr Green."

2. 39.6 ( calculation  $6.6 \times 6$   
 $6 \times 6 = 36$   
 $0.6 \times 6 = 3.6$       $36 + 3.6 = \mathbf{39.6}$  )

3.  $\text{£}1.50$  (  $\text{£}7.50 \div 5$  )  
250 grams (  $\text{£}3.60 \div 90p = 4$   
 $1000g \div 4 = \mathbf{250g}$  )

## Day 6

### Mental Questions

1. 9, 1 and 16 should be circled (square number - a number multiplied by itself, e.g  $3 \times 3$ ,  $4 \times 4$ )
2. - 1
3. Area
4. 32 ( $25\% = 1/4$ , so  $8 \times 4 = 32$ )
5. 11.2

### SATs Questions

1. 221.2 ( $30 \times 7 = 210$   
 $1 \times 7 = 7$   
 $0.6 \times 7 = 4.2$        $210 + 7 + 4.2 = 221.2$ )

2. 0.11
3. 4.85
4. 520.608
- 5.

	less than 1000	equal to 1000	more than 1000
$8.9 \times 9.9 \times 11.9$			✓
$(786 - 387) \div 0.41$	✓		
$95.4 + (91 \times 9.95)$			✓
$12.5 \times (21.1 + 58.9)$		✓	

CALCULATOR  
ALLOWED

6. 813.75 ( $37.5 \times 21.7$ )  
58.17 (do calculation in brackets first)

## Day 7

### Mental Questions

1. 102, 105, 108 etc. (the digits must add to a multiple of 3)
2. 1 (or equivalent fraction)
3. - 3
4. West
5. £24 ( $40 \div 5 \times 3$ )

### SATs Questions

1. 12 (drawings to represent the answer, list of numbers to work it out.  
Calculation:  $25 - 1 = 24$   
 $24 \div 2 = 12$ )
2. 3 (inverse operation  $28 \times 14 = 392$ )
3.  $323 \times 47 = 15181$
4. 312 (inverse operations  $26 \times 12$ , grid multiplication could be used to do this calculation, see question 3 day 1 for example)



## Day 8

### Mental Questions

1. 24 (  $8 \times 3 = 24$   $2 + 4 = 6$  )
2. 33p (  $\pounds 3.30 \div 10 = 33\text{p}$  )
3. 52
4. 11
5. 8 (  $1.5 \times 8 = 12$  )

### SATs Questions

1. odd + odd + odd = odd ( if an example is shown without explanation then it is not correct)
2. 2051 ( inverse operation  $4099 + 3 = 4102$   
 $4012 \div 2 = \mathbf{2051}$   
Or they could continue the sequence, 131.  
259, 515 etc. )
3. 20 and -60
4. 

2	-1	1
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## Day 9

### Mental Questions

1.  $\frac{6}{8}$  and  $\frac{15}{20}$  circled
2. 25%
3. 169 ( $13 \times 13$ )
4. 20
5. 5

### SATs Questions

1. 55cm  
11 strips ( $280\text{cm} - 30\text{cm} = 250\text{cm}$   
 $250 \div 25 = 10$  strips  
10s trips plus the first 30cm strip = **11**)
2. 10 ( $9\text{cm} \div 4.5\text{cm} = 2$  boxes along the width  
 $31\text{cm} \div 6.2\text{cm} = 5$  boxes along the length  
 $5 \times 2 = \mathbf{10}$ )

## Day 10

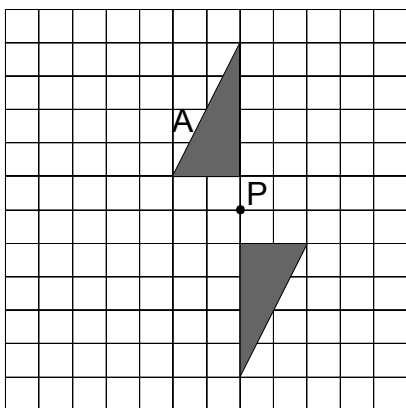
### Mental Questions

1. £3.00 (50% of £2 = £1, £2 + £1 = £3)
2. Trapezium (Isosceles trapezium)
3.  $14/27$
4. 10 (  $29 \times 10 = 290$ ,  $300 - 290 = 10$  )
5.  $3/7$        $\frac{15}{35} = \frac{3}{7}$       Divide the numerator and the denominator by 5

### SATs Questions

1. 54cm (  $11 + 5 + 11 + 6 + 5 + 11 + 5 = 54\text{cm}$   
to find the missing length  $11 - 5 = 6$  )
2. 4cm (the other equal sides are 8cm each)
3. B

2 MARKS



1 MARK

