Answers to Year 6 Maths Challenges

Monday - Number

2 7 4 3

Award **TWO** marks for numbers completed, as shown:

354 × 9.5 =	**3,363**
3,540 × 95 =	**336,300**
3,363 ÷ 95 =	**35.4**

Award **ONE** mark for any two numbers completed correctly.

***Do not** accept transcription errors or misreads for this question.*

(a) 9,999,995

1

(b) 5,900,000

1

Award **TWO** marks for all four letters in the correct order as shown:

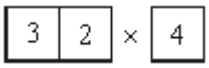
99 *J*

29 **G**

–83 **A**

–15 **E**

44 **H**



2,109,000

1

80,000

1

Tuesday 21st April 2020 - Four operations

Award **THREE** marks for the correct answer of 7,174

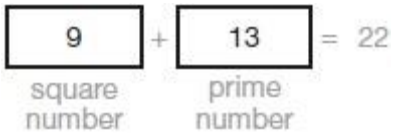
Award **TWO** marks for the correct answer of 40

Award **TWO** marks for the correct answer of 101

Award **TWO** marks for the correct answer of £1.68

Award **TWO** marks for the correct answer of £0.90

Both numbers correct as shown:



Wednesday 22nd April 2020 – Fractions, Decimals and Percentages

_£140

Do not *accept 140%*

Award **TWO** marks for the correct answer of 184

35%

(a) $6\frac{1}{4}$

Accept equivalent fractions.

Do not *accept* $5\frac{5}{4}$

1

(b) $1\frac{1}{2}$

Accept equivalent fractions, eg

$1\frac{2}{4}$, $\frac{3}{2}$, *1.5, 150%*

1

[2]

Thursday 23rd April 2020 – Algebra

Second box only ticked correctly, as shown:

number of tickets × 3 + 24	
number of tickets × 24 + 3	✓
number of tickets + 3 × 24	
number of tickets + 24 × 3	

Accept alternative unambiguous positive

Award **ONE** mark for the correct box ticked, as shown:

Tick **one.**

10 + *a*	
10 ÷ *a*	
a – 10	
10 − *a*	✓
a × 10	

Accept alternative unambiguous positive indication of the correct answer, e.g. Y.

(a) 140

The answer is a time interval

1

(b) 2

1

(a) ▲ = 32

1

(b) ○ = 18

*If the answers to ○ and △ are incorrect, award **ONE** mark if*
△ + ○ = 50 unless ○ = 25

1

(a) £2.55

1

(b) Award **TWO** marks for the correct answer of 25

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- £5.15 − 15p = £5
  £5 ÷ 20p

OR

- £5.15 − 15p = £5
  5 × 5

  *Answer need not be obtained for the award of **ONE** mark.*

Commentary: The 2014 national curriculum specifies that pupils should use simple formulae (6A2).

Up to 2

27

[1]

Friday 24th April 2020 - Measurement

(a) 7

***Do not** accept −7 or 7−*

1

(b) Oslo

Accept unambiguous abbreviations or recognisable misspellings.

1

Award **TWO** marks for the correct answer of 30.

Award **TWO** marks for the correct answer of 77°F.

(a) 46

The answer is a time interval.

1

(b) 10:44

The answer

Award **TWO** marks for the correct answer of £16,470

(a) 38

The answer is a time interval.

1

(b) 10:21

The answer is a specific time.