Year 5
Week 7 Answers
Lesson 1 – Roman Numerals

Write these numbers into Roman Numerals.
a) 110 - CX
b) 550 - DL
c) 1500 - MD
d) 2000 - MM
e) 3500 - MMMD
f) 800 – DCCC

Change these roman numerals into numbers

g) MMM – 3,000
h)MDL - 1550
i)DCX - 610
j)MMDL – 2,550
k)MMI - 2001
l)DVII - 507

Write these numbers into Roman Numerals.
a) 1352 - MCCCLII
b) 2561 – MMDLXI
c) 784 - DCCLXXXIV
d) 400 - CD
e) 648 - DCXLVIII
f) 950 – CML

Change these roman numerals into numbers
g) MDLXVII - 1567
h)DCCCLXX - 870
i)MMDCCLXXXVI - 2786
j)CMLX - 960
k)MCM - 1900
l)MMCML - 2950

Challenge 3

Ronny the Roman is trying to learn Roman Numerals. He believes that when working out a Roman Numeral that has either a 4 or 9 it would like this:
4 = IIII
9 = VIIII
He believes this would work with finding any number that has 4 or 9 in. Is he right? Explain your answer with a clear explanation and 3 examples to prove why.

Answer – Ronny is incorrect. We know that 4 and 9 are not represented in this way. 4 is IV. This means one before five. 9 should be IX. This means one before 10.

Year 5
Week 7
Lesson 2 – Roman Numerals

Solve the question and write the answer in Roman Numerals.
a) 2,000 – 1500 = D
b) 650 + 450 = MC
c) 1,500 ÷ 3 = D
d) 20 x 50 = M
e) 3,500 – 2,400 = MC
f) 5,263 – 3,463 = MDCCC

Solve the question and change the answer into numbers
g) MMM – M = MM
h)MDL + MCC = MMDCCL
i) XXX x XX = DC
j)MMM ÷ 3 = M
k) MDV – MLV = CDL
l) MLX + MDXXX = MDXC

Solve the question and write the answer in Roman Numerals.
a) 4,000 – 1,558 = MMCDXLII
b) 1,050 + 892 = MCMXLII
c) 3,333 ÷ 3 = MCXI
d) 24 x 48 = MCLII
e) 7,281 – 4,551 = MMDCCXXX
f) 1,211 + 1,445 = MMDCLVI

Solve the question and change the answer into numbers
g)DCXXV + DCCCI= MCDXXVI. h)DCCCLXX – CDIX = CDLXI
i)CMXXXI ÷ 7 = CXXXIII
j) XXIX x LVI = MDCXXIV
k) MMCLVI ÷ 4 = DXXXIX
l)LII x XV = DCCLXXX

Challenge 3

Match the calculation with the correct answer. One answer is not needed!

3,872 – 2,956	CDLXXXVII
987 + 2,567	MMMDLIV
56 x 38	MMCXXVIII
3896 ÷ 8	CMXVI

MCMXVIII

Year 5
Week 7
Lesson 3 – Roman Numerals recap

Challenge 1
Order the Roman numerals below in ascending order.

MCCXC 1290	MCDL 1650	MCDXXXIX 1439	MMMDCXC 3690	MMMDCC 3700

MCCXC, MCDXXXIX, MCDL, MMMDCXC, MMMDCC

CDVI 406	CCXLII 242	CDIX 409	CDIII 403	LXX 70

LX, CCXLII, CDIII, CDVI, CDIX

M 1,000	CMXCVI 996	DCL 650	DCCCXV 815	CMLXXX 980

DCL, DCCCXV, CMLXXX, CMXCVI, M

MCCL 1250	MCXC 1190	MXXIII 1023	MCCIII 1203	MXXXIX 1039

MXXIII, MXXXIX, MCXC, MCCIII, MCCL

Challenge 2

Convert the number equations into Roman Numerals then write either <> or = to the two calculations.

892 + 2,756 = 3,648 Written as Roman Numeral: MMMDCXLVIII	>	62 x 49 = 3,038 Written as Roman Numeral: MMMXXXVIII
3964 ÷ 4 = 991 Written as Roman Numeral: CMXCI	>	3,789 ÷ 9 = 421 Written as Roman Numeral: CDXXI
3,792 – 3,126 = 666 Written as Roman Numeral: DCLXVI	=	3996 ÷ 6 = 666 Written as Roman Numeral: DCLXVI
72 x 19 = 1,368 Written as Roman Numeral: MCCCLXVIII	<	68 x 24 = 1,632 Written as Roman Numeral: MDCXXXII

Challenge 3

Write a fact file about yourself using Roman Numerals as your number. Your fact file should include:
Your date of birth
Siblings' dates of birth
Your age
Your height in cm
Foot size
Your house number
Dates that are important to you

Year 5
Week 7
Lesson 4 – Negative numbers

Challenge 1

Using the number-line work out the answers below.
a) 7 – 16 = -9

b) 9 – 15 = -6

c) 5 – 13 = -8

d) 9– 18 = -9

e) 5 – 19 = -14

f) -1 – 16 = -17

g) – 3 - 19 = -21

h) – 4 – 15 = -19

i) – 3 – 18 = -21

j) – 5 – 22 = -27

Challenge 2

Nelly the negative number had a go at working out a calculation involving negative numbers. Nelly thinks that **3 – 17 = 14.** Using your understanding of negative numbers, correct Nelly's mistake, giving a clear explanation for your answer. In your answer, demonstrate your understanding with a number line or diagram to.

Nelly is incorrect. What she has done is swap the numbers around and done 17- 3 = 14. What Nelly should of done is take 3 away to get to 0. Then subtract the remaining 14 to get to -14.

Challenge 3

1. In Tokyo, it was -6°C. In Dubai it was 30°C. What was the difference between the two temperatures?
   36°C

2. If it is -26°C in Canada and 34°C in Australia, what is the difference in temperature?

60°C

3. At 6am, the temperature in Eastbourne was -12°C. By 2pm, it had risen by 6°C. What was the temperature in Eastbourne now?
   -6°C

4. Reece's house had a temperature of 12°C. He put the heating on and the temperature rose by 8°C. As he was still cold, Reece decided to light a fire which increased the temperature by a further 13°C. What was the temperature in the house now?
   33°C

5. At 4pm, the temperature in Sydney, Australia was 28°C. By 2am, it had dropped by 15°C, but by 10am the following morning it had risen by 11°C. What was the temperature in Sydney now?
   24°C

6. Martin was £-56 overdrawn. He had to spend £34 on his car. What was the total of his debt now?
   -90°C