

## 6 Year 3 Term 1 Week 6 Answers

### 6.1 Topic 1 — Roman Numerals

#### 6.1.1 Change the Roman numerals into our numerals:



① XXXI = 31

② CLIV = 154

③ XXXVIII = 38

④ XXVII = 27

⑤ XXXVI = 36

⑥ XV = 15

⑦ CLXXXVIII = 188

⑧ XCIX = 99

⑨ CXLVII = 147

⑩ CXCVI = 196

⑪ CLV = 155

⑫ LXII = 62

⑬ CXVI = 116

⑭ CLXXIX = 179

⑮ XXXV = 35

⑯ XLII = 42

⑰ CXXVII = 127

⑱ XCII = 92

⑲ XXVI = 26

⑳ XCVII = 97

㉑ CXXIX = 129

㉒ XLI = 41

㉓ CXXXVII = 137

㉔ CXXI = 121

Score: \_\_\_\_\_

**6.1.2 Change the Hindu-Arabic numerals into Roman numerals:**

① 105 = CV

② 36 = XXXVI

③ 175 = CLXXV

④ 196 = CXCVI

⑤ 24 = XXIV

⑥ 70 = LXX

⑦ 106 = CVI

⑧ 158 = CLVIII

⑨ 199 = CXCIX

⑩ 15 = XV

⑪ 112 = CXII

⑫ 18 = XVIII

⑬ 50 = L

⑭ 153 = CLIII

⑮ 88 = LXXXVIII

⑯ 167 = CLXVII

⑰ 67 = LXVII

⑱ 155 = CLV

⑲ 101 = CI

⑳ 51 = LI

㉑ 197 = CXCVII

㉒ 120 = CXX

㉓ 99 = XCIX

㉔ 163 = CLXIII

Score: \_\_\_\_\_

## 6.2 Topic 2 — Puzzles (Across Downs)

### 6.2.1 Across down (Additions)

1

39	+	36	+	30	=	105
+		+		+		+
3	+	39	+	45	=	87
+		+		+		+
33	+	16	+	49	=	98
=		=		=		=
75	+	91	+	124	=	290

2

37	+	4	+	16	=	57
+		+		+		+
17	+	43	+	20	=	80
+		+		+		+
29	+	6	+	1	=	36
=		=		=		=
83	+	53	+	37	=	173



3

32	+	5	+	8	=	45
+		+		+		+
16	+	35	+	10	=	61
+		+		+		+
15	+	38	+	1	=	54
=		=		=		=
63	+	78	+	19	=	160

4

29	+	13	+	39	=	81
+		+		+		+
25	+	34	+	28	=	87
+		+		+		+
18	+	30	+	11	=	59
=		=		=		=
72	+	77	+	78	=	227

Score:


6.2.2 Across down (Subtractions)

1

135	-	56	-	38	=	41
-		-		-		-
53	-	8	-	21	=	24
-		-		-		-
34	-	19	-	5	=	10
=		=		=		=
48	-	29	-	12	=	7

2

158	-	64	-	42	=	52
-		-		-		-
65	-	10	-	27	=	28
-		-		-		-
41	-	27	-	3	=	11
=		=		=		=
52	-	27	-	12	=	13



3

114	-	48	-	50	=	16
-		-		-		-
55	-	11	-	31	=	13
-		-		-		-
27	-	16	-	9	=	2
=		=		=		=
32	-	21	-	10	=	1

4

130	-	50	-	36	=	44
-		-		-		-
51	-	4	-	23	=	24
-		-		-		-
28	-	16	-	3	=	9
=		=		=		=
51	-	30	-	10	=	11

Score:

**6.3 Topic 3 — Multiplication**

$$\begin{array}{r} \textcircled{1} \quad 88 \\ \times 2 \\ \hline 176 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 255 \\ \times 2 \\ \hline 510 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 64 \\ \times 4 \\ \hline 256 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 96 \\ \times 3 \\ \hline 288 \end{array}$$



$$\begin{array}{r} \textcircled{5} \quad 803 \\ \times 5 \\ \hline 4,015 \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 89 \\ \times 6 \\ \hline 534 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 658 \\ \times 5 \\ \hline 3,290 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 72 \\ \times 10 \\ \hline 720 \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad 467 \\ \times 3 \\ \hline 1,401 \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad 58 \\ \times 7 \\ \hline 406 \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad 901 \\ \times 4 \\ \hline 3,604 \end{array}$$

$$\begin{array}{r} \textcircled{12} \quad 275 \\ \times 4 \\ \hline 1,100 \end{array}$$

$$\begin{array}{r} \textcircled{13} \quad 92 \\ \times 9 \\ \hline 828 \end{array}$$

$$\begin{array}{r} \textcircled{14} \quad 572 \\ \times 9 \\ \hline 5,148 \end{array}$$

$$\begin{array}{r} \textcircled{15} \quad 88 \\ \times 8 \\ \hline 704 \end{array}$$

$$\begin{array}{r} \textcircled{16} \quad 113 \\ \times 10 \\ \hline 1,130 \end{array}$$

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Score:

**6.4 Topic 4 — Divisions****6.4.1 Divisions without remainders**

$$\textcircled{1} \quad \begin{array}{r} 15 \\ 4 \overline{) 60} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 8 \\ 4 \overline{) 32} \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 49 \\ 3 \overline{) 147} \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 4 \\ 5 \overline{) 20} \end{array}$$



$$\textcircled{5} \quad \begin{array}{r} 46 \\ 3 \overline{) 138} \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 11 \\ 8 \overline{) 88} \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 30 \\ 4 \overline{) 120} \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 13 \\ 7 \overline{) 91} \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 7 \\ 7 \overline{) 49} \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 8 \\ 6 \overline{) 48} \end{array}$$

$$\textcircled{11} \quad \begin{array}{r} 14 \\ 7 \overline{) 98} \end{array}$$

$$\textcircled{12} \quad \begin{array}{r} 20 \\ 4 \overline{) 80} \end{array}$$

$$\textcircled{13} \quad \begin{array}{r} 6 \\ 4 \overline{) 24} \end{array}$$

$$\textcircled{14} \quad \begin{array}{r} 26 \\ 3 \overline{) 78} \end{array}$$

$$\textcircled{15} \quad \begin{array}{r} 11 \\ 6 \overline{) 66} \end{array}$$

$$\textcircled{16} \quad \begin{array}{r} 5 \\ 8 \overline{) 40} \end{array}$$

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Score:

## 6.4.2 Divisions with whole number remainders

$$\textcircled{1} \quad \begin{array}{r} 13 \text{ r}1 \\ 6 \overline{)79} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 42 \text{ r}1 \\ 3 \overline{)127} \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 11 \text{ r}7 \\ 9 \overline{)106} \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 6 \text{ r}2 \\ 3 \overline{)20} \end{array}$$



$$\textcircled{5} \quad \begin{array}{r} 29 \text{ r}1 \\ 4 \overline{)117} \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 25 \text{ r}1 \\ 5 \overline{)126} \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 35 \text{ r}2 \\ 3 \overline{)107} \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 20 \text{ r}6 \\ 7 \overline{)146} \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 44 \text{ r}0 \\ 2 \overline{)88} \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 11 \text{ r}5 \\ 8 \overline{)93} \end{array}$$

$$\textcircled{11} \quad \begin{array}{r} 3 \text{ r}1 \\ 9 \overline{)28} \end{array}$$

$$\textcircled{12} \quad \begin{array}{r} 16 \text{ r}2 \\ 6 \overline{)98} \end{array}$$

$$\textcircled{13} \quad \begin{array}{r} 6 \text{ r}0 \\ 7 \overline{)42} \end{array}$$

$$\textcircled{14} \quad \begin{array}{r} 11 \text{ r}6 \\ 7 \overline{)83} \end{array}$$

$$\textcircled{15} \quad \begin{array}{r} 7 \text{ r}4 \\ 9 \overline{)67} \end{array}$$

$$\textcircled{16} \quad \begin{array}{r} 9 \text{ r}2 \\ 9 \overline{)83} \end{array}$$

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Score:

**6.5 Topic 5 — Number Patterns**

$$\textcircled{1} \quad 4, 10, 16, 22, 28, 34, 40, \quad 46, 52 \quad (+ 6)$$

$$\textcircled{2} \quad 60, 56, 52, 48, 44, 40, 36, \quad 32, 28 \quad (- 4)$$

$$\textcircled{3} \quad 56, 61, 66, 71, 76, 81, 86, \quad 91, 96 \quad (+ 5)$$

$$\textcircled{4} \quad 98, 92, 86, 80, 74, 68, 62, \quad 56, 50 \quad (- 6)$$

$$\textcircled{5} \quad 46, 43, 40, 37, 34, 31, 28, \quad 25, 22 \quad (- 3)$$

$$\textcircled{6} \quad 70, 68, 66, 64, 62, 60, 58, \quad 56, 54 \quad (- 2)$$

$$\textcircled{7} \quad 0, 3, 6, 9, 12, 15, 18, \quad 21, 24 \quad (+ 3)$$

$$\textcircled{8} \quad 87, 81, 75, 69, 63, 57, 51, \quad 45, 39 \quad (- 6)$$

$$\textcircled{9} \quad 65, 70, 75, 80, 85, 90, 95, \quad 100, 105 \quad (+ 5)$$

$$\textcircled{10} \quad 91, 82, 73, 64, 55, 46, 37, \quad 28, 19 \quad (- 9)$$

$$\textcircled{11} \quad 43, 48, 53, 58, 63, 68, 73, \quad 78, 83 \quad (+ 5)$$

$$\textcircled{12} \quad 59, 61, 63, 65, 67, 69, 71, \quad 73, 75 \quad (+ 2)$$

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Score:



**6.6 Problem Solving (Number problems)**

E 6.6.1 (1) 15 ; (2) 19 ; (3) 8 ; (4) 63 ; (5) 12 ; (6) 16 ; (7) 8 ; (8) 4 ; (9) 18 ; (10) 31 ; (11) 32 ; (12) 9 ;

**6.7 Miscellaneous exercises**

E 6.7.1 (1) C ; (2) C ; (3) B ; (4) A ; (5) B ; (6) B ; (7) A ; (8) B ; (9) B ; (10) C ;

E 6.7.2 (1) 73 kg ; (2) 13 cm ; (3) 4 notes ; (4) 27 children ; (5) 21 ; (6) 2 ; (7) 8 ; (8) a. \$9, b. \$1 ;

(9) a. \$2.40, b. \$2.60 ; (10) a. 30 ¢ or \$30, b. 50 ¢ or \$0.50 ;

(11) 4 notes (\$50 + \$20 + \$20 + \$5);