

## Year 3 Term 3 Homework Answers

|                            |                     |
|----------------------------|---------------------|
| <b>Student Name:</b> _____ | <b>Grade:</b> _____ |
| <b>Date:</b> _____         | <b>Score:</b> _____ |

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## 31 Year 3 Term 3 Week 1 Answers

### 31.1 Topic 1 — Numeration

#### 31.1.1 Roman Numeral 1

① 109 = CIX

② 52 = LII 

③ 55 = LV

④ 97 = XCVII

⑤ 150 = CL

⑥ 105 = CV

⑦ 120 = CXX

⑧ 166 = CLXVI

⑨ 106 = CVI

⑩ 149 = CXLIX

⑪ 20 = XX

⑫ 174 = CLXXIV

⑬ 72 = LXXII

⑭ 179 = CLXXIX

⑮ 89 = LXXXIX

⑯ 70 = LXX

⑰ 136 = CXXXVI

⑱ 90 = XC

⑲ 102 = CII

⑳ 165 = CLXV

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

## 31.1.2 Roman Numeral 2



① CXXVI = 126

② CXXXVIII = 138

③ XXXIX = 39

④ LXXXVII = 87

⑤ LXXVIII = 78

⑥ LXXIII = 73

⑦ CXXXII = 132

⑧ XXXVI = 36

⑨ XLV = 45

⑩ CLXXXII = 182

⑪ LXVIII = 68

⑫ CXIX = 119

⑬ XX = 20

⑭ CL = 150

⑮ XXVI = 26

⑯ XXXIII = 33

⑰ LXIV = 64

⑱ CXCIII = 193

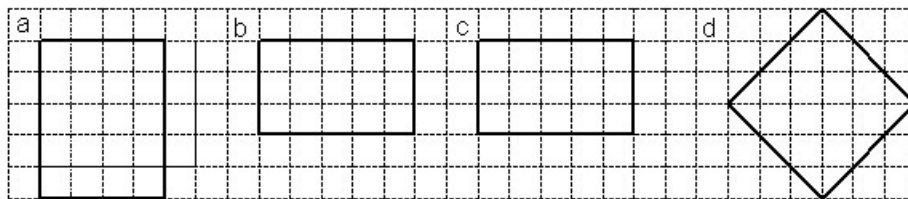
⑲ LVIII = 58

⑳ CLII = 152

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

### 31.2 Topic 2 — Space Strand (2D)

(2-1) a. B ; b. B; c. A ; d. B ; e. D; (2-2) a. 1, 2, 5, 6, 8, 11, 12 ; b. 1, 8, 11 ; c. 8, 11 ;



(2-3)

(2-4) a. 2, 3, 5, 7, 9, 10 ; b. 2, 3 ; c. 1, 4, 6, 8 ; d. 2, 3, 9 ;

### 31.3 Topic 3 — Space Strand (3D)

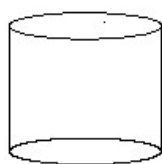
(3-1) a. D ; b. B ; c. A ; d. B ; e. C ; f. A ;

(3-2)

|                    |    |    |    |   |   |
|--------------------|----|----|----|---|---|
| Number of faces    | 6  | 6  | 6  | 5 | 5 |
| Number of Vertices | 8  | 8  | 8  | 6 | 5 |
| Number of Edges    | 12 | 12 | 12 | 9 | 8 |

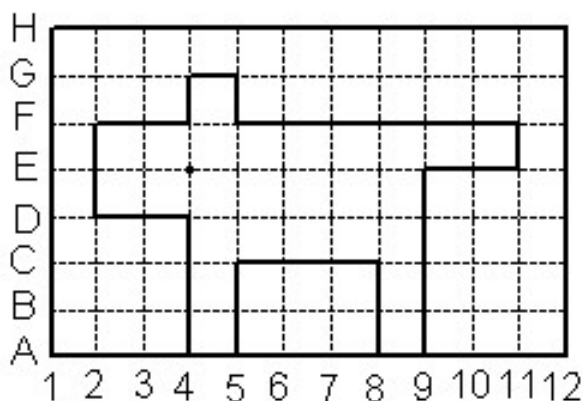
(3-3) b – yes , c – yes, and f – yes ; (3-4) Cylinder ;

(3-5)



### 31.4 Topic 4 — Position

(4-1) a. three places to the left. b. one place up and two places to the left ; c. four places to the right and two places up ; d. four places down and one place to the left ; e. three places down and one place to the right ;



(4-2) It is a dog ;

### 31.5 Topic 5 — Graphs

(5-1)

- a) 14 students chose red: IIII IIII IIII
- b) 2 students chose purple: II
- c) 8 students chose yellow: IIII III
- d) 16 students chose green: IIII IIII IIII I
- e) 12 students chose blue: IIII IIII II

(5-2) a. 300 L ; Sunday ; c. Wednesday and Friday ; d. 250 L ; e. 1850 L ;

### 31.6 Number Problems

#### 31.6.1 Number Problem 1

(1) 36; (2) 7 ; (3) 5 ; (4) 30 ; (5) 4 ; (6) 3 ; (7) 6 ; (8) 11 ; (9) 27 ; (10) 15 ;

#### 31.6.2 Number Problem 2

(1) 5 ; (2) 36 ; (3) 11 ; (4) 9 ; (5) 2 ; (6) 12 ; (7) 3, 21; (8) 11 ; (9) 6 ; (10) 56 ;

### 31.7 Quiz 21

- (1) triangular prism ; (2) triangular pyramid ; (3) square-based Pyramid ; (4) 9 ; (5) 8 ; (6) 5 & 40 ;
- (7) 840 g ; (8) 384 ; (9) 666 ; (10) MMVII ; (11) 270 (12) 1879 ; (13) 90; (14) 72 ; (15) 24 ; (16) 104 ;
- (17) a. 1024 ; b. 28 ; c. 64 ; d. 8 ; e. 48 ; f. 120 ; g. 18 ; h.  $\frac{1}{2}$  ; i. 100 ;