

## Year 3 Term 3 Homework

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

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## 2 Year 3 Term 3 Week 2 Homework

### 2.1 Topic 1 — Roman Numerals

#### 2.1.1 Roman Numerals:

Roman Numerals were very popular about 2000 years ago. The Roman number system is based on the idea of **addition** and **subtraction**.

- When a smaller numeral appears before a large one, it is **subtracted** from the large one:

$$\text{IV means } 5 - 1 = 4$$

$$\text{XL means } 50 - 10 = 40$$

- When a smaller numeral appears after the larger one, it is **added** to the large one.

$$\text{VI means } 5 + 1 = 6$$

$$\text{LX means } 50 + 10 = 60$$

- By repeating a numeral, its value is repeated.

$$\text{XX} = 10 + 10 = 20$$

$$\text{XXX} = 10 + 10 + 10 = 30$$

- By placing a bar over the numeral, its value is increased by 1000 times.

$$\begin{array}{l|l} \overline{\text{V}} = 5000 & \overline{\text{X}} = 10,000 \\ \overline{\text{L}} = 50,000 & \overline{\text{C}} = 100,000 \\ \overline{\text{D}} = 500,000 & \overline{\text{M}} = 1,000,000 \end{array}$$

The table below gives more details of the Roman numeral system:

I	II	III	IV	V	VI	VII	VIII	IX
1	2	3	4	5	6	7	8	9
X	XX	XXX	XL	L	LX	LXX	LXXX	XC
10	20	30	40	50	60	70	80	90
C	CC	CCC	CD	D	DC	DCC	DCCC	CM
100	200	300	400	500	600	700	800	900
M								
1000								

**2.1.2 Roman Numerals 3**

① 280 = \_\_\_\_\_

② 557 = \_\_\_\_\_

③ 500 = \_\_\_\_\_

④ 170 = \_\_\_\_\_

⑤ 103 = \_\_\_\_\_

⑥ 414 = \_\_\_\_\_

⑦ 252 = \_\_\_\_\_

⑧ 358 = \_\_\_\_\_

⑨ 133 = \_\_\_\_\_

⑩ 218 = \_\_\_\_\_

⑪ 234 = \_\_\_\_\_

⑫ 452 = \_\_\_\_\_

⑬ 263 = \_\_\_\_\_

⑭ 495 = \_\_\_\_\_

⑮ 187 = \_\_\_\_\_

⑯ 106 = \_\_\_\_\_

⑰ 393 = \_\_\_\_\_

⑱ 344 = \_\_\_\_\_

⑲ 481 = \_\_\_\_\_

⑳ 172 = \_\_\_\_\_

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Score:

**2.1.3 Roman Numerals 4**

① CCXV = \_\_\_\_\_

② CDXC = \_\_\_\_\_

③ DXIV = \_\_\_\_\_

④ CCCXCVII = \_\_\_\_\_

⑤ CXI = \_\_\_\_\_

⑥ CLXXXVI = \_\_\_\_\_

⑦ DXI = \_\_\_\_\_

⑧ CDLXXXV = \_\_\_\_\_

⑨ CDXXVII = \_\_\_\_\_

⑩ CCLIV = \_\_\_\_\_

⑪ DLXII = \_\_\_\_\_

⑫ CCCLXXXVII = \_\_\_\_\_

⑬ DXXVI = \_\_\_\_\_

⑭ CDXL = \_\_\_\_\_

⑮ CCCLXXVI = \_\_\_\_\_

⑯ CDLXXVIII = \_\_\_\_\_

⑰ CCLXXVI = \_\_\_\_\_

⑱ DLIX = \_\_\_\_\_

⑲ CCXCIII = \_\_\_\_\_

⑳ CCCXXVIII = \_\_\_\_\_

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

## 2.2 Topic 2 — Space Strand (2D)

**Lines of Symmetry:** If one half of a shape can be folded exactly onto the other half, the fold line is said to be a line of symmetry. For example: the capital letter A has one line of symmetry, a rectangle has 2 lines of symmetry.

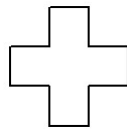
1. Which of the following capital letters have only one line of symmetry?  
 C, E, F, J, H, K, M, N and T

\_\_\_\_\_

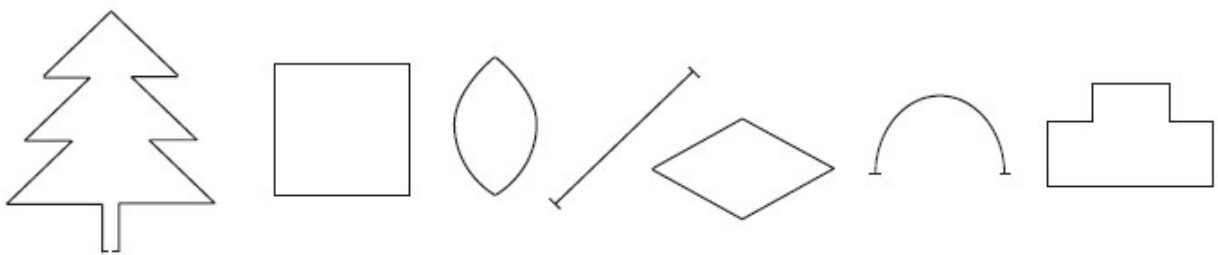
2. How many lines of symmetry does a square have? \_\_\_\_\_



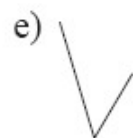
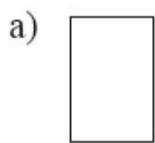
3. How many lines of symmetry does the following shape have? \_\_\_\_\_



4. Draw a line of symmetry on each shape and colour one Half of each shape in red and the other half in blue.



5. Each drawing in only half of the picture. complete the whole drawing.

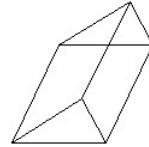


### 2.3 Topic 3 — Space Strand (3D)

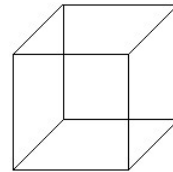
Prisms and Cylinders: A prism is a solid shape with opposite ends (or bases) of an identical size and shape. The cross-section is always the same shape and size as the ends. The other faces are rectangles. Such as square prism, triangular prism and cylinder.

1. Name the following prisms:

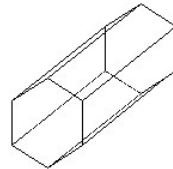
(a) \_\_\_\_\_



(b) \_\_\_\_\_



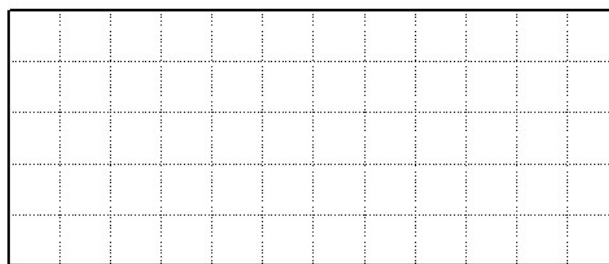
(c) \_\_\_\_\_



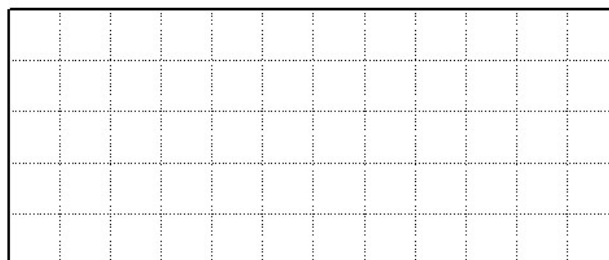
2. Which solid has one circular face and a curved surface tapering from the circular face to a point?

\_\_\_\_\_

3. Draw the solid described above.



4. Draw the faces of a rectangular prism (net).



### 2.4 Topic 4 — Position

1. On the grid below create a magic square by placing the numbers in the position indicated.

- A, W → 9; B, W → 15; C, W → 6; D, W → 20; A, X → 14; B, X → 12;  
 C, X → 17; D, X → 7; A, Y → 19; B, Y → 5; C, Y → 16; D, Y → 10; A,  
 Z → 8; B, Z → 18; C, Z → 12; D, Z → 13;

Z				
Y				
X				
W				
	A	B	C	D

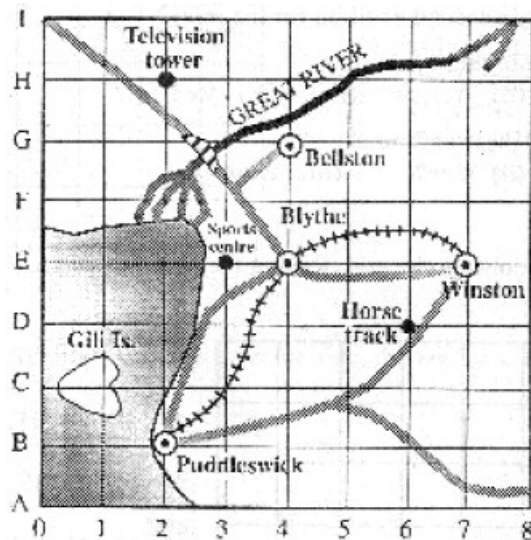
2. When you have completed this square you will find that one number is incorrect. In which position is the incorrect number and what should the number be?

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3. The map shows the port of Winshire.



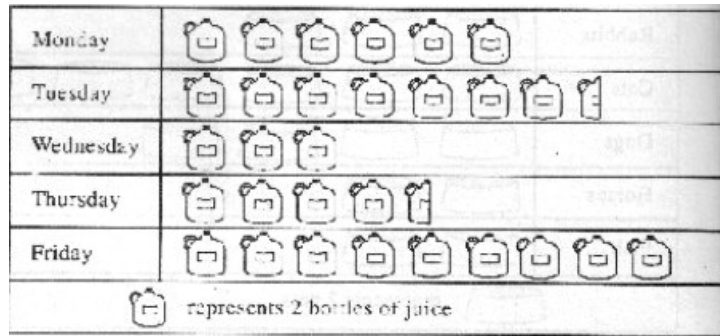
(a) What would be found at: 2B and 6D?

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(b) What are the coordinates of Winston and Gili Inland?

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### 2.5 Topic 5 — Graphs (Picture Graphs)



1. (a) On which day were 12 bottles of juice sold?

\_\_\_\_\_

(b) On which day were the most bottles sold?

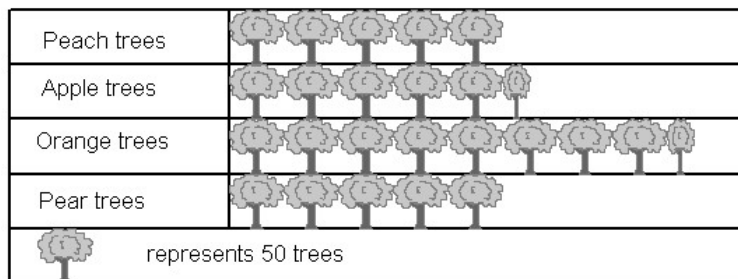
\_\_\_\_\_

(c) How many more bottles were sold on Friday than on Wednesday?

\_\_\_\_\_

(d) How many bottles of juice were sold altogether during the week?

\_\_\_\_\_



2. (a) How many less peach trees than orange trees?

\_\_\_\_\_

(b) How many peach trees and apple trees do we have altogether?

\_\_\_\_\_

(c) How many more orange trees than pear trees?

\_\_\_\_\_

(d) How many trees are there altogether?

\_\_\_\_\_



**2.6 Problem Solving (Number Problems)****2.6.1 Number Problems 3**

- ① \_\_\_\_\_ Nine is equal to the quotient of a number and 2. Find the number.
- ② \_\_\_\_\_ The quotient of a number and three is 8. Find the number.
- ③ \_\_\_\_\_ One number is seven times another. Their sum is 16. Find the numbers.
- ④ \_\_\_\_\_ The product of nine and a number is 81. What is the number?
- ⑤ \_\_\_\_\_ Three less than a number is 3. Find the number.
- ⑥ \_\_\_\_\_ 4 is equal to the product of two and some number. Find the number.
- ⑦ \_\_\_\_\_ The difference of a number and seven is equal to 7. What is the number?
- ⑧ \_\_\_\_\_ Nine times a number decreased by 101 is 7. Find the number.
- ⑨ \_\_\_\_\_ Six times a number increased by 6 is 78. Find the number.
- ⑩ \_\_\_\_\_ Eight more than five times a number is 23. What is the number?

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Score:

**2.6.2 Number Problems 4**

- ① \_\_\_\_\_ Ten is equal to the quotient of a number and 8. Find the number.
- ② \_\_\_\_\_ Four times a number increased by 7 is 43. Find the number.
- ③ \_\_\_\_\_ The product of six and a number is 54. What is the number?
- ④ \_\_\_\_\_ The difference of a number and seven is equal to 3. What is the number?
- ⑤ \_\_\_\_\_ One less than six times a number is 11. Find the number.
- ⑥ \_\_\_\_\_ One number is five times another. Their sum is 18. Find the numbers.
- ⑦ \_\_\_\_\_ 35 is equal to the product of seven and some number. Find the number.
- ⑧ \_\_\_\_\_ The quotient of a number and two is 2. Find the number.
- ⑨ \_\_\_\_\_ Three times a number diminished by 5 is 4. Find the number.
- ⑩ \_\_\_\_\_ One of two numbers is nine more than the other. The sum of the numbers is 17. Find the numbers.

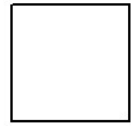
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Score:

### 2.7 Quiz 2

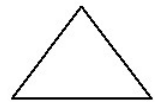
1. How many sides, angles and diagonals has a square?

sides: \_\_\_\_\_ angles: \_\_\_\_\_ diagonals: \_\_\_\_\_



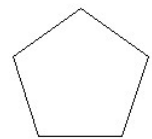
2. How many sides, angles and diagonals has a triangle?

sides: \_\_\_\_\_ angles: \_\_\_\_\_ diagonals: \_\_\_\_\_



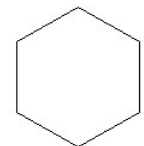
3. How many sides, angles and diagonals has a pentagon?

sides: \_\_\_\_\_ angles: \_\_\_\_\_ diagonals: \_\_\_\_\_

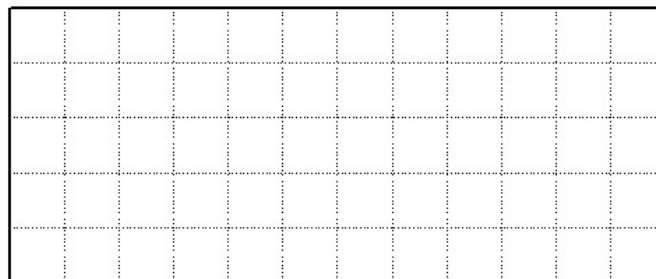
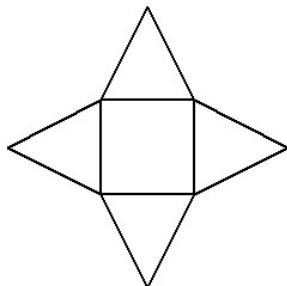


4. How many sides, angles and diagonals has a hexagon?

sides: \_\_\_\_\_ angles: \_\_\_\_\_ diagonals: \_\_\_\_\_



5. Construct a model of pyramid from the net shown and name the type of pyramid from the net.



\_\_\_\_\_

6. John bought 15 lollies of 5 cents each, a shortbread biscuit for 25 cents and five liquorice sticks for 15 cents each. How much money did he spend altogether?

\_\_\_\_\_

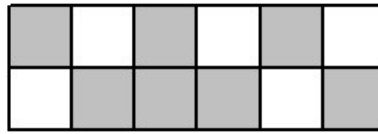
\_\_\_\_\_

7. The supermarket sells 8 peaches for \$4.00 and 5 mangoes for \$4.50. Which is the cheaper fruit?

\_\_\_\_\_

\_\_\_\_\_

8. What fraction has been shaded in the figure shown below: \_\_\_\_\_



9.  $(5 \times 5) + 5 =$  \_\_\_\_\_

10.  $(8 \times 4) - 6 =$  \_\_\_\_\_

11.  $(9 \times 5) - 15 =$  \_\_\_\_\_

12. How many hundreds are there in twenty thousands?

\_\_\_\_\_

\_\_\_\_\_

13. A fraction is added to half itself and the answer is 1. What is the fraction?

\_\_\_\_\_

\_\_\_\_\_

14. A blind person has 6 black socks and 6 white ones all mixed up in a bag. What is the least number of socks that he must take out of the bag in order to be certain he has a matching pair?

\_\_\_\_\_

\_\_\_\_\_

15. A notebook and a pencil cost \$2.50. The pencil cost 40 cents. How much more than the pencil did the notebook cost?

\_\_\_\_\_

\_\_\_\_\_

16. The petrol tank in our car holds 66 litres. The car uses 10 litres every 100 kilometres. How many more times would we need to fill the car on a long journey of 1440 kilometres if the tank was full before the trip?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

17. How many triangles can you see from this figure?



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18. Dad goes to work at 7:45 a.m. He is usually away for eight and a half hours. What time is he due home?

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19. At what temperature does water boil?

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20. At what temperature does water freeze?

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21. Jane is 12 years old. Two years ago she was twice as old as her sister Jessica. How old was Jane when Jessica was born?

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22. If you start from 1 and count by 6, what is the 7th number you come to?

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