

**TAURANGA GIRLS COLLEGE**  
**YEAR 9 HOMEWORK SHEET**  
**Series E Sheet 2**

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_



1.

	0.2	0.3	0.7	0.9	1.4	7.2	13.5	8.7	5.8	9.8
double										

2.

	0.8	0.4	1.4	2.6	5.6	16.4	86.8	11.2	15.4	27.2
halve										

3.

	10	4	5	7	8	12	11	6	3	9
x 6										

4.

	18	36	45	27	54	81	63	0	72	90
÷ 9										

Use the numeracy strategy double and halve to complete these calculations:

For Q8 – 12 round as indicated:  
 8. 812.7 to nearest whole number

9. 6.77 to nearest tenth

10. 91,670 to nearest hundred

11. 398.601 to nearest hundredth

12. 4,598,000 to nearest million

5.  $0.5 \times 68 =$   
       =

9.  $6.77$  to nearest tenth

6.  $1.5 \times 60 =$   
       =

10. 91,670 to nearest hundred

7.  $3.5 \times 120 =$   
       =

11. 398.601 to nearest hundredth

12. 4,598,000 to nearest million

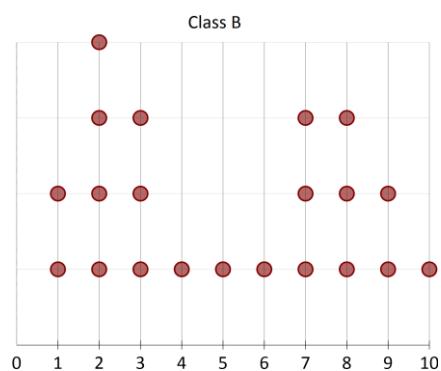
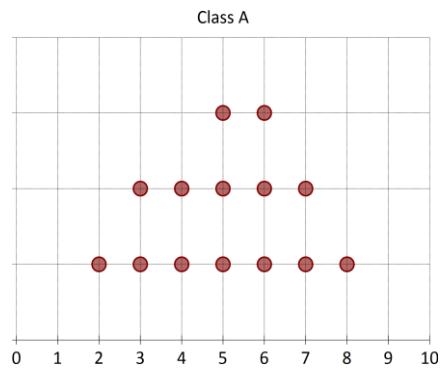
Numeracy Total: \_\_\_\_\_ / 12

## KEY SKILLS:

1. Two classes (A and B) were given a test.

The test was out of 10. The results are shown on the dot plots.

- What is the **range** of scores in Class A?
- Which class had the smallest **range** of scores?
- Which class had a group in the class who did well, but another group in the class who did not so well?
- What name is given to the shape of data shown in class B?
- Which class has marks which have a roughly *symmetrical* shape?
- Which class will have the highest median?



2. a)  $-42 + 22 =$

b)  $-40 \div -5 =$

3. If  $p = 7$  and  $q = 2$  give the value of  $(p + q)^2$  \_\_\_\_\_

4. If  $g - 25 = 35$ , what value is  $g$ ?

$g =$  \_\_\_\_\_

5. Do these calculations:

a)  $15.37 \times 10 =$

b)  $137.8 \div 10 =$

c)  $82 \div 10 =$

d)  $0.3 \times 0.4 =$

6. Simplify  $\frac{18}{24}$

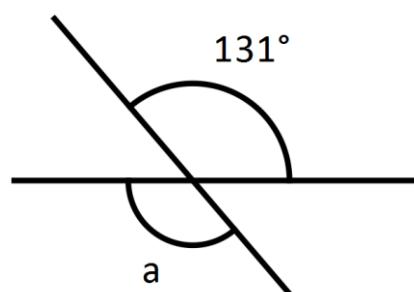
7. Write 0.17 as a fraction

8. Calculate:

a) 10% of 80 =

b) 25% of 60 =

9. Give the size of the angle  $a$  below (do **not** use a protractor) and state the reason for your answer.



$a =$  \_\_\_\_\_

Reason:

Key Skills Total: \_\_\_\_\_ / 20

## CURRENT WORK:

### **1. Complete these 12 hour / 24 hour conversions:**

12 hour (am / pm)	8:15am	5:20pm	Half past 3 in the afternoon		
24 hour				0745	1320

2. Which unit would you use to measure these lengths (km, m, cm or mm)

- a) The length of your classroom
  - b) The distance to Auckland
  - c) The thickness of your exercise book
  - d) The width of your desk

### **3. Complete these key length conversions:**

- a)  $1\text{m} = \dots \text{mm}$       b)  $1\text{m} = \dots \text{cm}$       c)  $1\text{km} = \dots \text{m}$

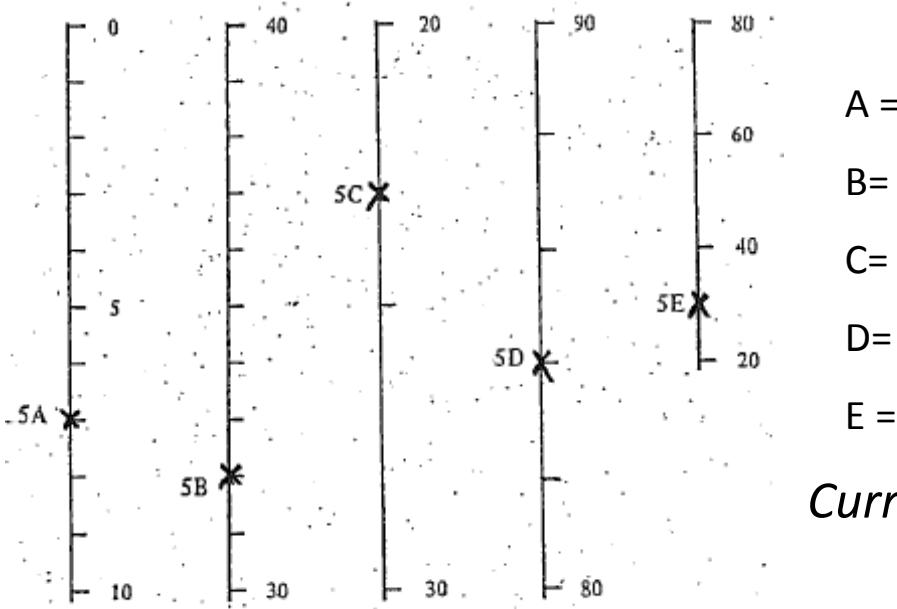
**4.** Complete these length conversions:

- a)  $3\text{m} = \dots \text{mm}$       b)  $7\text{m} = \dots \text{cm}$       c)  $5\text{km} = \dots \text{m}$

d)  $7.2\text{m} = \dots \text{mm}$       e)  $8.5\text{m} = \dots \text{cm}$       f)  $8.1\text{km} = \dots \text{m}$

g)  $3600\text{ mm} = \dots \text{m}$       h)  $720\text{cm} = \dots \text{m}$       g)  $5\text{km} = \dots \text{m}$

**5.** Write the value of each point marked on these scales:



### *Current Work Total:*

/ 26

## APPLICATIONS AND PROBLEM SOLVING

These questions use the Problem Solving Skill *Make a List*

- Thomas is making three layered candles. He is using red, green, and blue wax. How many different ways can he arrange the three colours in the candles?

Working:



Thomas can make \_\_\_\_\_ different arrangements.

- Lynette is using the digits 5, 9, 7, and 3 to make as many four-digit numbers as she can. How many different ways can she arrange the digits?

Working:

Lynette can make \_\_\_\_\_ different four-digit numbers.

- Marcus is wrapping a birthday present for his mother. There are red, blue, silver, and white wrapping papers and four types of white bows. From how many different combinations of paper and white ribbon can Marcus choose?

Working:

Marcus can have \_\_\_\_\_ combinations of paper and white ribbon.

*Applications and problem solving Total:* \_\_\_\_\_ / 6

***Overall Total:*** \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ / 64

***Parent Signature:***