

TAURANGA GIRLS COLLEGE
YEAR 9 HOMEWORK SHEET
Series A Sheet 7

TGC Values: Respect, Participation, Pride

Name: _____

Tutor Class: _____



Due Date: _____

KEY SKILLS:

1. In the number 562,319 what digit is in the *hundred thousands* column? _____

2. Write 567,000 in words

3. Round 234,894 to the nearest *hundred thousand*

4. Insert < or > to make it a true statement:
467,426 _____ 467,421

5. 9 squared = _____

6. List the first three multiples of 7

7. Calculate $2 + 16 \div 2$

8. Write 0.09 as a fraction =

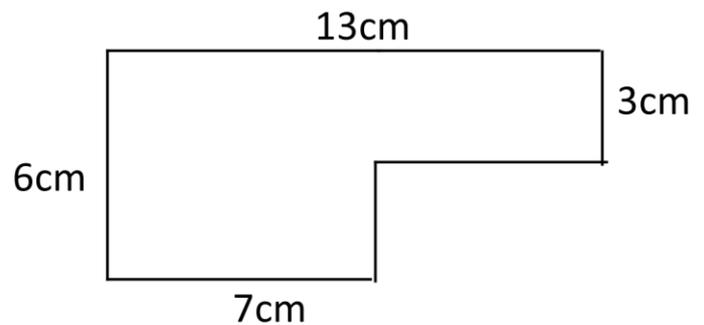
9. $\frac{2}{3}$ of 24 = _____

10. $\frac{2}{7} \times 2 =$ _____

11. Write the next two numbers:
-31, -27, -23, _____, _____

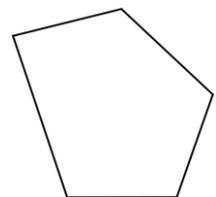
12. 4 metres = _____ cm

13. What is the *perimeter* of this shape? _____ cm



14. What is the *area* of a square of side length 11m? _____ m²

15. Name this Shape



16. The total number of goals scored in 11 soccer games was recorded:

0, 1, 1, 2, 2, 3, 3, 3, 4, 5, 7

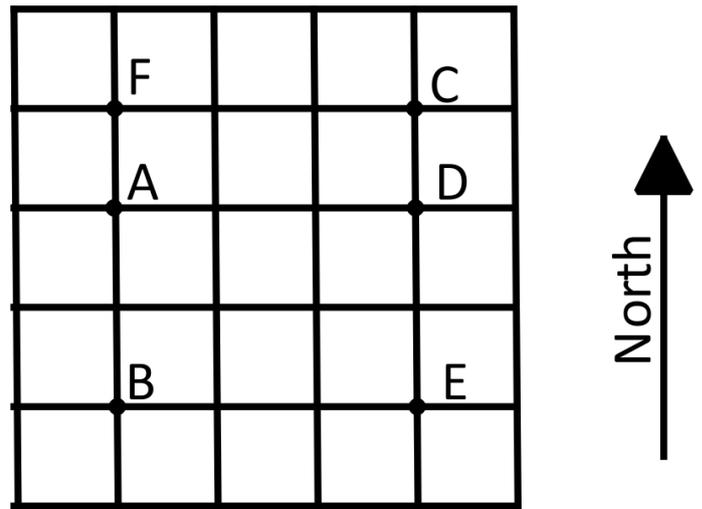
What was the *median numbers of goals scored*?

Key Skills Total: _____ / 16

CURRENT WORK:

1. Are the following statements true or false?
 - a. West is the opposite direction to East
 - b. Southwest is the opposite direction to Northeast
 - c. The bearing of West is 180
 - d. The bearing of east is 90
 - e. The bearing of southwest is 135

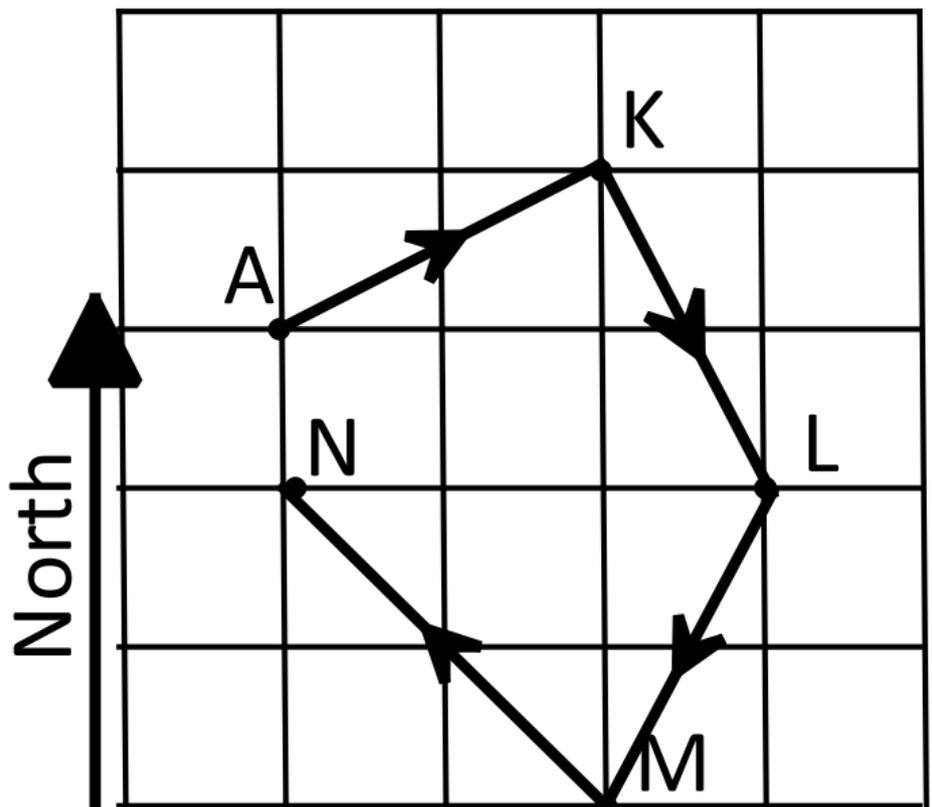
2. Give the point which is:
 - a. North of A
 - b. South of D
 - c. East of A
 - d. Northwest of E
 - e. Northeast of B



What is the bearing of:

- f. B from A
- g. B from E
- h. D from A
- i. A from D
- j. C from B
- k. F from E

3. Use your protractor to give the bearing of each part of the journey on the grid shown here:
 - a. A to K
 - b. K to L
 - c. L to M
 - d. M to N



Current Work Total: _____ / 20

APPLICATIONS AND PROBLEM SOLVING

(Show your working to show how you solved these questions. One mark for working, one mark for the correct answer).

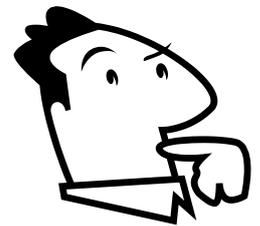
We will use the method of *Guess, Check and Refine* for these questions.

With this method you:

- Make a guess (try and get one that is reasonable and sensible),
- Check if your guess gives the correct answer
- If not, then try another guess (use your answer to your first guess as a guide). You may need several further guesses.
- Once you have found the correct answer write a clear statement which answers the question

1. What two numbers have a *product* of 18 and a *sum* of 9?

Product means _____ and Sum means _____



Guess #1: Try 1 and 18

$$1 \times 18 = \dots\dots\dots$$

$$1 + 18 = \dots\dots\dots$$

Therefore this is/is not the answer.

Guess #2: Try 2 and 9

$$2 \times \dots\dots\dots = \dots\dots\dots$$

$$2 + \dots\dots\dots = \dots\dots\dots$$

Therefore this is/is not the answer

Guess #3: Try 3 and

$$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$$

$$\dots\dots\dots \times \dots\dots\dots = \dots\dots\dots$$

Therefore this is/ is not the answer.

Answer: The two numbers areand

2. Two even numbers *sum* to 28 and have a *difference* of 4. What are the two numbers?

Guess #1: Try 8 and 20

$8 + 20 = \dots\dots\dots$

$20 - 8 = \dots\dots\dots$

Therefore this is/is not the answer.

Guess #2: Try 10 and 18

$10 + \dots\dots\dots = \dots\dots\dots$

$18 - \dots\dots\dots = \dots\dots\dots$

Therefore this is/is not the answer

Guess #3: Try 12 and

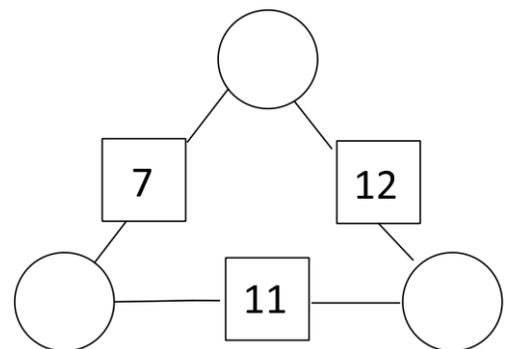
$\dots\dots\dots + \dots\dots\dots = \dots\dots\dots$

$\dots\dots\dots - \dots\dots\dots = \dots\dots\dots$

Therefore this is/ is not the answer.

Answer: The two numbers areand

3. The number in the square is the *sum* of the numbers in the two circles joining it.
Find the numbers in the circles.
Use the process of guess and check to get your answers.
Working:



Applications and problem solving Total: _____ / 6

Self Reflection:

		Comment (What do I need to understand?)
Key Skills	___ / 16	
Current work	___ / 20	
Applications	___ / 6	
Total	___ / 30	

Parent Signature: _____