

TAURANGA GIRLS COLLEGE
YEAR 9 HOMEWORK SHEET
Series A Sheet 6

TGC Values: Respect, Participation, Pride

KEY SKILLS:

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

2. Write 305,000 in words

3. Round 54,894 to the nearest *ten thousand*

4. Insert < or > to make it a true statement:

167,376 _____ 167,341

5. 9 squared = _____

6. List the first three multiples of 9

7. Calculate $7 + 12 \div 3$

8. Write 0.03 as a fraction = _____

9. $\frac{2}{3}$ of 27 = _____

10. $\frac{2}{5} \times 2 =$

11. Write the next two numbers:
-23, -17, -11, _____, _____

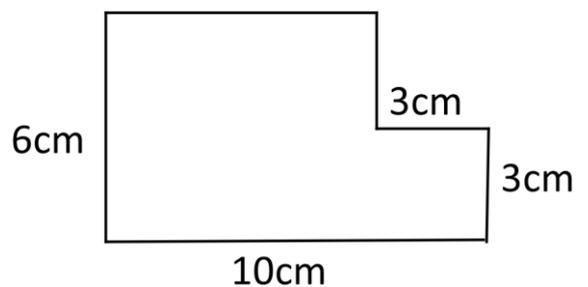
Name: _____

Tutor Class: _____

Due Date: _____

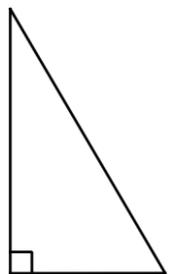
12. 8 metres = _____ cm

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



14. What is the *area* of a square of side length 9mm?
_____ mm²

15. Fully name this shape



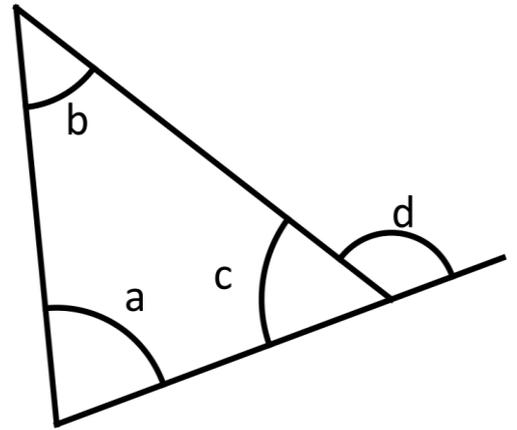
16. The time taken, in seconds, for seven year 7 students to run 100m was recorded:
14, 15, 15, 16, 17, 17, 17
What was the *mode* run time of the seven students?

Key Skills Total: _____ / 16

CURRENT WORK:

1. Are the following statements true or false for this diagram?

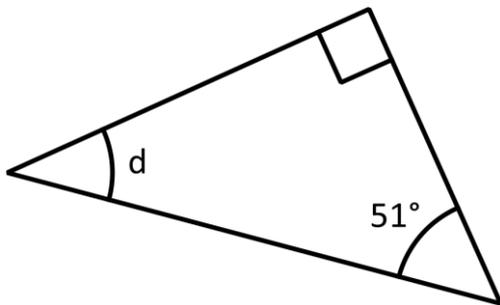
- Angle **a** is an *obtuse angle*
- Angles **a**, **b** and **c** add to 180°
- Angles **c** and **d** add to 180°



2. Are the following statements true or false ?

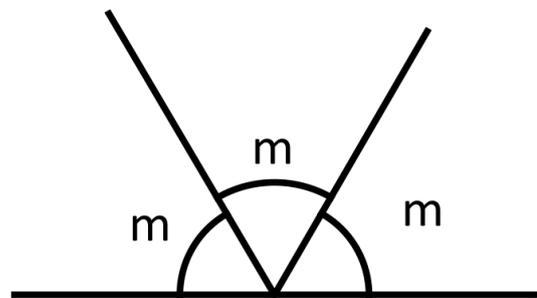
- East is the opposite direction to West
- Southeast is the opposite direction to Northwest

3. Give the size of each angle below (do **not** use a protractor) **and** state the reason for your answer. (One mark for each angle and reason)



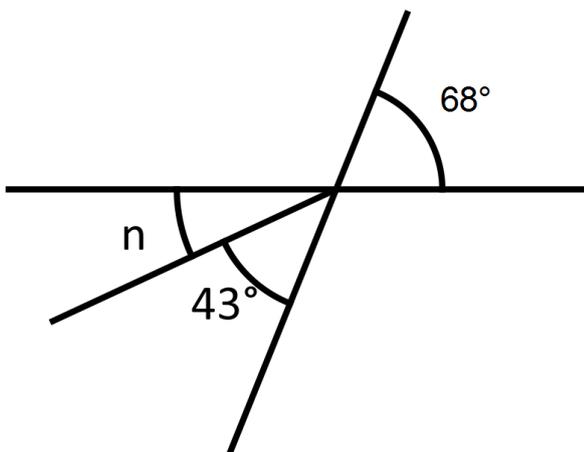
$d = \underline{\hspace{2cm}}$

Reason:



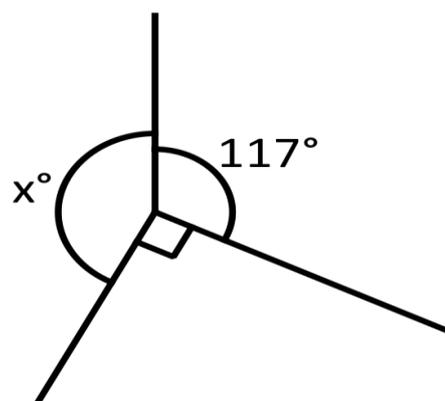
$m = \underline{\hspace{2cm}}$

Reason:



$n = \underline{\hspace{2cm}}$

Reason:



$x = \underline{\hspace{2cm}}$

Reason:

Current Work Total: / 13

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. Three consecutive numbers (that is, three numbers one after the other, like 7, 8, and 9) add up to 42. What are the three consecutive numbers?

Working:

Guess #1: Try 9, 10, 11

Check: $9 + 10 + 11 = \dots\dots$

So this is/is not the answer. Try something smaller/bigger. (circle the correct responses)

Guess #2: Try 20, 21, 22

Check: $20 + 21 + 22 = \dots\dots$

So this *is / is not* the answer. Try something smaller/bigger

Guess #3: Try 13, \dots , \dots

Check: $13 + \dots\dots + \dots\dots = \dots\dots$ So this *is / is not* the answer.

Answer:

The three consecutive numbers that add up to 42 are $\dots\dots$, $\dots\dots$ and $\dots\dots$

2. Three consecutive odd numbers (for example 3, 5, 7) add to 51. What are the three numbers?

Guess #1: Try 5, 7, 9

Check: $5 + 7 + 9 = \dots\dots\dots$

So this is/is not the answer. Try something smaller/bigger.

Guess #2: Try 19, 21, 23

Check: $19 + \dots\dots\dots + \dots\dots\dots = \dots\dots\dots$

So this is/is not the answer. Try something smaller/bigger.

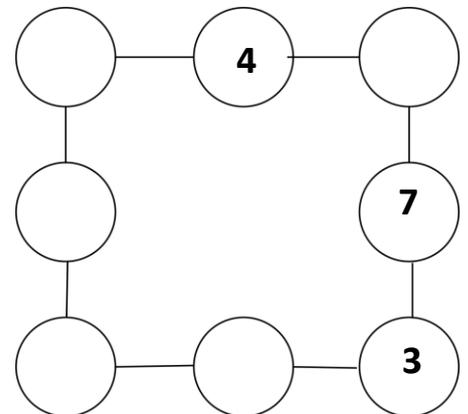
Guess #3: Try 15,.....,

Check: $15 + \dots\dots\dots + \dots\dots\dots = \dots\dots\dots$

So this is/is not the answer.

Answer: The three numbers are, and

3. Place the numbers 1 to 8 in the circles, so that the sum along each line is the same. Some have already been filled in for you.
Working:



Applications and problem solving Total: _____ / 6

Self Reflection:

		Comment (What do I need to understand?)
Key Skills	___ / 16	
Current work	___ / 8	
Applications	___ / 6	
Total	___ / 30	

Parent Signature: _____