

# Homework 15

---

Hand in: \_\_\_\_\_

Do not use a calculator for questions 1-6. You must show all your working out where the question number is **underlined**. For these questions stating an answer without showing a written method will not score a mark.

|                                                                   |                                                   |
|-------------------------------------------------------------------|---------------------------------------------------|
| <p><b><u>1.</u></b> Calculate <math>\frac{2}{3}</math> of 48.</p> | <p><b><u>2.</u></b> Calculate 25% of 600</p>      |
| <p><b>3.</b> Simplify;<br/><math>5b + 4c - b + 2c</math></p>      | <p><b>4.</b> How many days are there in 2020?</p> |

**5.**

$$3.4 \times 4 =$$

**6.**

$$18.2 \div 4$$

7. Complete the set of coordinates using  $y = 3x$

|   |   |   |   |   |
|---|---|---|---|---|
| x | 0 | 1 | 2 | 3 |
| y |   |   |   |   |

(0, \_\_) (1, \_\_) (2, \_\_)

(3, \_\_)

8. How many lines of symmetry does an equilateral triangle have?

**9.** 5 out of 20 people prefer coffee. What angle should represent them on a pie chart?

10. How many metres are equal to 1.4km?

## Gold:

Substitute the following values into the expressions below.

$$a = 3$$

$$b = 10$$

$$c = 2$$

1.  $a + bc =$

.....

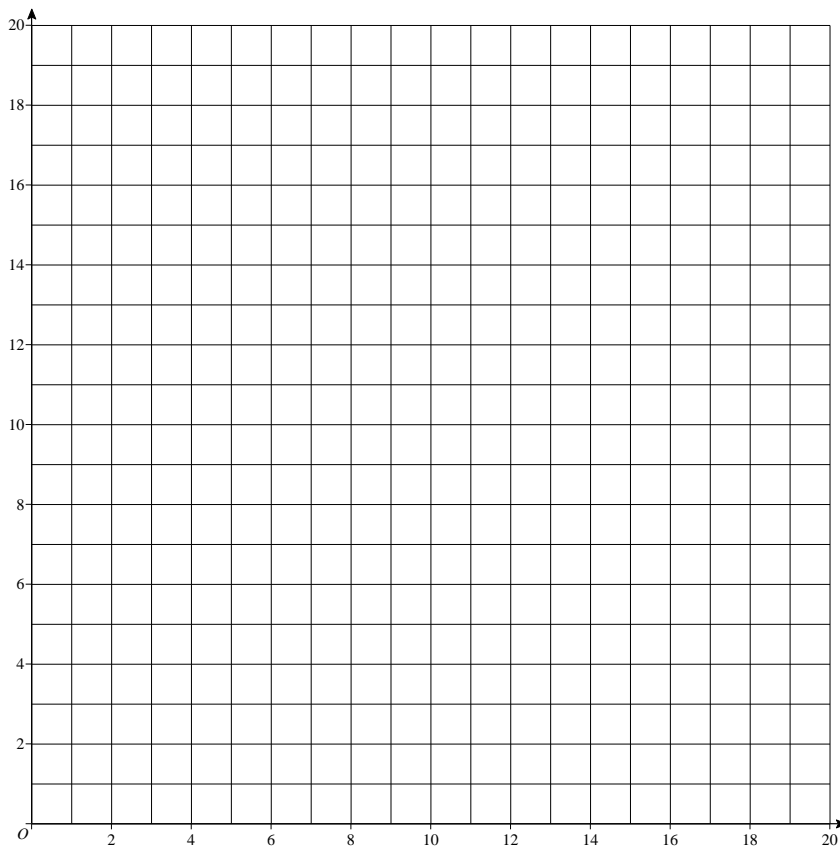
2.  $4ac =$

.....

3.  $3a + 4b - 5c =$

.....

Generate coordinates and plot the graph for  $y=3x + 1$



| x | y |
|---|---|
| 0 |   |
| 1 |   |
| 2 |   |
| 3 |   |
| 4 |   |
| 5 |   |

## Silver:

Substitute the following values into the expressions below.

$$a = 4 \qquad b = 10 \qquad c = 2 \qquad d = 1$$

$$a + b + c + d = \dots\dots\dots$$

$$10a = \dots\dots\dots$$

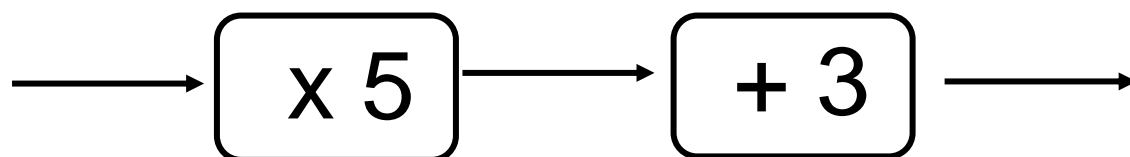
$$3b + 5c = \dots\dots\dots$$

$$6d + 2c + b = \dots\dots\dots$$

$$ab + 3d = \dots\dots\dots$$

## Bronze:

Complete the table of inputs and outputs for the function machine below:



| Input | Output |
|-------|--------|
| 2     |        |
|       | 33     |
| 11    |        |
|       | 58     |
| 0     |        |
|       | 18     |