

Homework 14

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><u>1.</u> Calculate $\frac{3}{4}$ of 40</p>	<p><u>2.</u> Calculate 75% of 400</p>
<p>3. Simplify; $3a + 2a + 4$</p>	<p>4. How many weeks are there in one year?</p>

5.

$$2.8 \times 7 =$$

6.

$$12.4 \div 5$$

7. Complete the set of coordinates using $y = x + 2$

x	0	1	2	3
y				

(0, __) (1, __) (2, __)

(3, __)

8. What is the order of rotational symmetry for a square?

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

10. How many centimetres are equal to 3.7m?

Gold:

Expand and simplify the following expressions;

1, $3(a + 4) + 2(a - 1)$

.....

.....

2. $4(3x + 7) + 5(2x + 3)$

.....

.....

3. $3(4m + 1) + 2(7 - 2m)$

.....

.....

4. $a(a + 3) + 2a(3a + 1)$

.....

.....

5. $x(x + 4) + 3(3x + 2)$

.....

.....

Silver:

Expand and simplify;

$$2(3a + 4) + 10 = \dots\dots\dots$$

$$5(b + 3) + 2b = \dots\dots\dots$$

$$6(3e - 4f) + 2f - 11 = \dots\dots\dots$$

$$7(3a + 2b - c) - 8b = \dots\dots\dots$$

$$10(m + 3n - 4) - 5m = \dots\dots\dots$$

$$2(7 + 3a) - 4a = \dots\dots\dots$$

Bronze:

Expand the brackets:

$$2(a + 1) = \dots\dots\dots$$

$$5(y + 3) = \dots\dots\dots$$

$$3(p + 10) = \dots\dots\dots$$

$$4(2a + 5) = \dots\dots\dots$$

$$3(5m - 3) = \dots\dots\dots$$

$$10(2r + 3q) = \dots\dots\dots$$