

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> Three quarters of an amount is 24. What is the amount?</p>	<p><u>2.</u> Calculate the product of 0.4 and 1.2</p>
<p>3. Expand the brackets and simplify; $3(x + 4) + 2(x + 5)$</p>	<p><u>4.</u> 5 out of 20 people prefer coffee. What angle should represent them on a pie chart?</p>

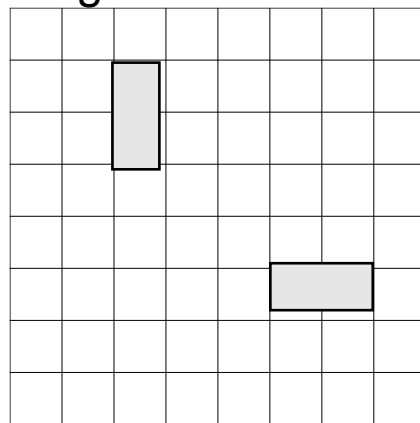
5. Write 0.228 as a fraction in its simplest form.

6. Write these numbers in ascending order.

0.35, 42%, $\frac{3}{5}$

7. Increase 75 by 15%

8. Draw the mirror line on the diagram.



9. Complete the sets of coordinates using the equation $y = x^2$

(7,____) (____,121)

10. Calculate the midpoint of 12 and 28.

Gold:

Expand and simplify;

$$(x + 4)(x + 2)$$

.....

$$(x + 1)(x + 5)$$

.....

$$(x + 7)(x + 3)$$

.....

$$(2x + 5)(x + 1)$$

.....

Silver:

Expand and simplify the following expressions;

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

.....

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

.....

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

.....

.....

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

.....

.....

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

.....

.....

Bronze:

Expand and simplify;

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

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

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

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

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

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