

# Homework 23

---

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

Do not use a calculator for questions 1-10. You must show all of your working out. You may need to look up definitions or ask for some extra help either at home or at school for some of these questions.

<p>1. Simplify the expression</p> $p + p$	<p>2. Circle the expression that means '5 lots of a'</p> <table border="1" data-bbox="922 969 1294 1283"><tbody><tr><td data-bbox="922 969 1107 1120">5a</td><td data-bbox="1107 969 1294 1120"><math>a^5</math></td></tr><tr><td data-bbox="922 1120 1107 1283">a5</td><td data-bbox="1107 1120 1294 1283">5 + a</td></tr></tbody></table>	5a	$a^5$	a5	5 + a
5a	$a^5$				
a5	5 + a				
<p>3. Work out</p> $47 \times 5$	<p>4. What is the mode for this set of data?</p> $10, 10, 12, 20$				

5. Work out

$$\frac{1}{2} \text{ of } 16$$

6. Circle the values that are equal to 40%

4	0.4
$\frac{4}{10}$	$\frac{1}{4}$

7. What is 10% of 100?

8. Which ratio is the same as 10 : 25?

1 : 5	2 : 5	1 : 16
-------	-------	--------

9. Work out

$$85 \div 5$$

10. What is

$$6.50 + 8.16?$$

## Gold:

Alice, Ben and Charlie are given the following question:

$$3 + 8 \times 12 - 3$$

Alice says that the answer is 129,  
Ben disagrees and says that it is 96.  
Charlie is certain that the answer is 99.  
Who is correct? Explain your answer.

.....

.....

.....

.....

.....

## Silver:

Circle the part of the calculation you should do first, you do not need to work out the answers:

$(3 + 2) \times 5$	$4 + 8 \times 2$
$12 \div 4 - 2$	$8 + 5^2 \times 6 - 2$

Work out the answer to the following calculations. You must not use a calculator.

$(10 - 6) \times (8 + 2)$	$(7 - 2)^2 \times 5$
.....	.....
.....	.....
.....	.....

**Bronze:**

Work out the answer to the following calculations. You must not use a calculator. Show all of your working out.

$358 + 46$	$723 - 519$
$27 \times 6$	$429 \div 3$

