

Homework 22

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> $b + b + b + b$	<p>2. Circle the expression that means 'three lots of x'</p> <table border="1" data-bbox="922 969 1294 1283"><tbody><tr><td>$x + 3$</td><td>$x3$</td></tr><tr><td>$3x$</td><td>x^3</td></tr></tbody></table>	$x + 3$	$x3$	$3x$	x^3
$x + 3$	$x3$				
$3x$	x^3				
<p>3. Work out</p> 32×3	<p>4. What is the mode for this set of data?</p> $8, 5, 9, 5, 3, 2$				

5. Work out

$$\frac{1}{2} \text{ of } 60$$

6. Circle the values that are equal to 0.25

$\frac{1}{4}$	2.5%
$\frac{2}{5}$	25%

7. What is 10% of 20?

8. Which ratio is the same as 2 : 1?

1 : 2	3 : 2	4 : 2
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9. Work out

$$84 \div 2$$

10. What is

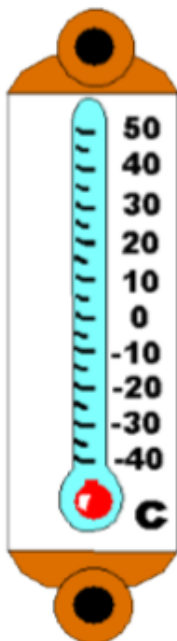
$$5.30 + 4.09?$$

Gold:

Match the worded question to the calculation and work out the answer:

Alice has £250 in her bank account. She pays £271 to have her car repaired. How much overdrawn is she?	$-271 - - 250 =$
Beth is £271 overdrawn, she pays £250 into her bank account. What is her balance?	$-271 + - 250 =$
Charlie owes a debt of £271. His sister offers to take £250 of this debt from him	$-271 + 250 =$
Danny is overdrawn by £271, and increases this debt by £250. How much money does he now owe?	$250 - 271 =$

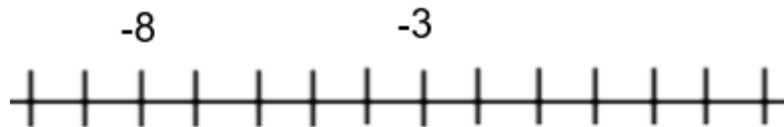
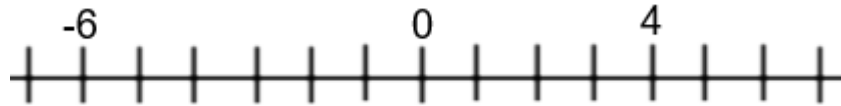
Silver:



1. The temperature increases for -5°C to 7°C . How much has the temperature increased by?
2. At midday the temperature is 12°C , by midnight it has fallen by 17°C . What is the temperature at midnight?
3. At 8pm it is -4°C outside, by 2am it is -7°C . Fred says that is 3 degrees warmer at 2am. Is he correct?

Bronze:

Fill in the missing numbers on the number lines below:



Use the number line below to answer the questions that follow.



1. What number is 3 more than -10?
2. What number is 2 smaller than -3?
3. How many whole numbers are between -6 and 3?

What is 7 less than 2?