Homework 24

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.

1. Simplify the expression	2. Circle the expression that means '8 lots of x'
c + c+ c + c- c	<table><tr><td>8 + x</td><td>8 - x</td></tr><tr><td>x8</td><td>8x</td></tr></table>
3. Work out 31 x 5	4. What is the mode for this set of data? 0.5, 0.6, 0.8, 0.8

5. Work out $\frac{1}{2}$ of 22	6. Circle the values that are equal to 70% 	7.0	$\frac{7}{10}$		$\frac{1}{7}$	0.7	
7. What is 10% of 150?	8. Which ratio is the same as 12 : 4? 6 : 2 8 : 0 9 : 1
9. Work out 52 ÷ 2	10. What is 7.26 + 1.7?

Gold:

List the first 12 square numbers

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Find pairs of square numbers that add up to a third square number

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Silver:

When we add, subtract, multiply and divide combinations of odd and even numbers the outcomes are always odd or even for that combination. Fill in the blanks with either odd or even. The first one is done for you:

Even + Even = <u>Even</u>   Even x Even = _____

Even + Odd = _____   Even x Odd = _____

Odd + Odd = _____   Odd x Odd = _____

Even - Even = _____   Even ÷ Even = _____

Even – Odd = _____   Even ÷ Odd = _____

Odd – Even = _____   Odd ÷ Odd = _____

Odd – Odd = _____

Bronze:

Circle the even numbers in the table:

14	73	51	85
27	56	38	102

Using all of the number cards below write down the smallest odd number you can make.

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Andi says that the largest even number she can make is 6932, because it starts with the 6. Is she correct?

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