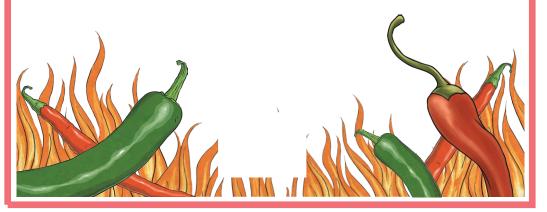


Addition, Subtraction, Multiplication and Division



Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Calculating

Identify common factors, common multiples and prime numbers below 30

Find the common factors of 8 and 10 by listing the factors of each: 8: and 10: and identifying the common factors.

Find some common multiples of 2 and 7 by listing some multiples of each: 2: and identifying the common multiples.

Prime numbers between 0 and 30 are:

Addition, Subtraction, Multiplication and Division

Nice and Spicy!



Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

$$(6 + 4) \times 3 = 10 \times 3 =$$
 (brackets first)

'sister' calculations

BODMAS or BIDMAS () $^2 \div \times + -$

Addition, Subtraction, Multiplication and Division

Nice and Spicy!



Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Round to the nearest 100 to check the accuracy of



Solve Problems

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

An archer scores 78 and 67, but is penalised 25 points for a foul shot. What is the archer's total score?

Solve Problems

Solve problems involving addition, subtraction, multiplication and division

Pizzas cost £2 and ice cream £3 per tub. At a party, a pizza serves two people and a tub of ice cream serves three people. How much will pizza and ice cream cost for 12 people?

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Methods

Perform mental calculations, including with mixed operations and large numbers

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Methods

Multiply multi-digit numbers up to 2 digits by a twodigit whole number using the formal written method of long multiplication





Methods

Divide numbers up to 3 digits by a two-digit whole number less than 20 using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Can be written as _____



Calculating

Identify common factors, common multiples and prime numbers below 30

Find the common factors of 8 and 10 by listing the factors of each: **8:** 1, 2, 4, 8 and **10:** 1, 2, 5, 10 and identifying the common factors.

Find some common multiples of 2 and 7 by listing some multiples of each: **2:** 2, 4, 6, 8, 10, 12, 14, 16, 18 and **7:** 7, 14, 21, 28 and identifying the common multiples.

Prime numbers between 0 and 30 are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29

Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

$$6 + 4 \times 3 = 6 + 12 = 18$$
 (multiplication first)

$$(6 + 4) \times 3 = 10 \times 3 = 30$$
 (brackets first)

'sister' calculations

BODMAS or BIDMAS ()
$$^2 \div \times + -$$

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Titoo arta

Calculating

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Round to the nearest 100 to check the accuracy of

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Solve Problems

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

An archer scores 78 and 67, but is penalised 25 points for a foul shot. What is the archer's total score?

120

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Solve Problems

Solve problems involving addition, subtraction, multiplication and division

250 must be divided by 100

Pizzas cost £2 and ice cream £3 per tub. At a party, a pizza serves two people and a tub of ice cream serves three people. How much will pizza and ice cream cost for 12 people?

£12 for pizza and £12 for ice cream so £24

Methods

Perform mental calculations, including with mixed operations and large numbers

$$105 \times 3 - 45 = 315 - 45 = 270$$

$$(330 - 300) \div 3 = 30 \div 3 = 10$$

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Methods

Multiply multi-digit numbers up to 2 digits by a twodigit whole number using the formal written method of long multiplication

Addition, Subtraction, Multiplication and Division

Nice and Spicy!

Methods

Divide numbers up to 3 digits by a two-digit whole number less than 20 using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Can be written as $\frac{32}{7}$ r8 $\frac{32}{7}$



It's getting hot!



Calculating

Identify common factors, common multiples and prime numbers

The common factors of 15 and 24 are

Use to find an equivalent fraction of -- = -

Some common multiples of 4 and 9 are

The prime numbers between 20 and 50 are and

Addition, Subtraction, Multiplication and Division

It's getting hot!



Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

'sister' calculations

BODMAS or BIDMAS ()
$$^2 \div \times + -$$

Addition, Subtraction, Multiplication and Division

It's getting hot!



Calculating

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Round to the nearest 1000 to check the accuracy of

Addition, Subtraction, Multiplication and Division

It's getting hot!



Solve Problems

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

An archer scores 98, 93 and 97. Another archer scores 91, 96, 89. What was the difference between the scores? Explain how you would use addition and subtraction to calculate the answer.





Solve Problems

Solve problems involving addition, subtraction, multiplication and division

Use $6593 \div 19 = 347$ to solve $18 \times 347 =$

Pizzas cost £2.40 and ice cream £4.25 per tub. At a party, a pizza serves two people and a tub of ice cream serves five people. How much will pizza and ice cream cost for 20 people?

Methods

Perform mental calculations, including with mixed operations and large numbers

Addition, Subtraction, Multiplication and Division

It's getting hot!



Methods

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Addition, Subtraction, Multiplication and Division

It's getting hot!



Methods

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

This can be written two ways: _____ or _____





Methods

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context





It's getting hot!



Calculating

Identify common factors, common multiples and prime numbers

The common factors of 15 and 24 are 1 and 3.

Use to find an equivalent fraction of $\frac{15}{24} = \frac{5}{8}$

Some common multiples of 4 and 9 are 36, 72, $108 \dots$

The prime numbers between 20 and 50 are 23, 29, 31, 37, 41, 43 and 47.

Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

$$6 + 4 \times 3 = 6 + 12 = 18$$
 (multiplication first)

$$(6 + 4) \times 3 = 10 \times 3 = 30$$
 (brackets first)

'sister' calculations

BODMAS or BIDMAS ()
$$^2 \div \times + -$$

Addition, Subtraction, Multiplication and Division

It's getting hot!



Calculating

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Round to the nearest 1000 to check the accuracy of

Explain that this shows the answer is accurate to the nearest 1000, but doesn't find the mistake.

This shows that the answer is reasonable but does not highlight the error in the calculation. Addition, Subtraction, Multiplication and Division

It's getting hot!



Solve Problems

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

An archer scores 98, 93 and 97. Another archer scores 91, 96, 89. What was the difference between the scores? Explain how you would use addition and subtraction to calculate the answer.



LL

Solve Problems

Solve problems involving addition, subtraction, multiplication and division

Use $6593 \div 19 = 347$ to solve $18 \times 347 =$

subtract 347 from 6593

Pizzas cost £2.40 and ice cream £4.25 per tub. At a party, a pizza serves two people and a tub of ice cream serves five people. How much will pizza and ice cream cost for 20 people?

£24 for pizza and £17 for ice cream so £41

Methods

Perform mental calculations, including with mixed operations and large numbers

$$295 \times 3 - 245 = 885 - 245 = 640$$

$$(6033 - 3000) \div 3 = 3033 \div 3 = 1011$$

Addition, Subtraction, Multiplication and Division

It's getting hot!



Methods

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Addition, Subtraction, Multiplication and Division

It's getting hot!



Methods

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

This can be written two ways: 299.75 or 299





Methods

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context





Calculating

Identify common factors, common multiples and prime numbers

The common factors of 21 and 35 are and Use to find equivalent fraction of $\frac{21}{35}$ = explaining why.

Some common multiples of 5 and 12 are ______, _____, ____etc

Explain how to use this when adding fractions.

The prime numbers between 0 and 100 are:

Addition, Subtraction, Multiplication and Division



Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

Explain why $6 + 4 \times 3 + 2 \neq (6 + 4) \times (3 + 2)$.

Addition, Subtraction, Multiplication and Division

Burning up!



Calculating

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Explain how to use rounding to check 378,376 - 182,581 = 195,765 and which rounded answer will help find the mistake. For example, rounding to the nearest ten thousand: 380,000 - 180,000 = 200,000 shows the answer 195,765 is not unreasonable, but does not highlight the error in the calculation.

Addition, Subtraction, Multiplication and Division

Burning up!



Solve Problems

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Write a word problem where the answer involves at least two addition and two subtraction calculations.





Solve Problems

Solve problems involving addition, subtraction, multiplication and division

Write a three-step word problem where three different operations must be performed to calculate the answer.

Methods

Perform mental calculations, including with mixed operations and large numbers

$$395 \times 5 - 945 =$$

$$(9099 - 3000) \div 3 =$$

Addition, Subtraction, Multiplication and Division

Burning up!



Methods

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Explain how the formal long multiplication method compares to an alternative multiplication strategy.

Addition, Subtraction, Multiplication and Division

Burning up!



Methods

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Explain how the formal written method of short division provides an answer as a decimal.



Burning up!



Methods

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Explain how the formal written method of short division provides an answer as a decimal. Write two different word problems to explain the two different ways that the remainder can be used.

- 1. The remainder is not used because it is not a complete set or group.
- 2. The remainder needs to be used, although the final group or set is incomplete.





Calculating

Identify common factors, common multiples and prime numbers

The common factors of 21 and 35 are 1 and 7.

Use to find equivalent fraction of $\frac{21}{35} = \frac{3}{5}$ explaining why.

21/35 = 3/5 because $21 \div 7 = 3$ and $35 \div 7 = 5$

Some common multiples of 5 and 12 are 60, 120, 180 etc.

Explain how to use this when adding fractions.

You can use this when adding fractions like 3/5 and 5/12 to find equivalent fractions with a common denominator.

Know and recognise all the prime numbers between 0 and 100.

2, 3, 5, 7, 11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97.

Addition, Subtraction, Multiplication and Division

Burning up!

Calculating

Use their knowledge of the order of operations to carry out calculations involving the four operations

Explain why $6 + 4 \times 3 + 2 \neq (6 + 4) \times (3 + 2)$.

$$6 + 4 \times 3 + 2 = 6 + (4 \times 3) + 2 = 6 + 12 + 2 = 20$$

$$(6 + 4) \times (3 + 2) = 10 \times 5 = 50$$

BODMAS or **BIDMAS**

Addition, Subtraction, Multiplication and Division

Burning up!



Calculating

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Explain how to use rounding to check 378,376 - 182,581 = 195,765 and which rounded answer will help find the mistake.

For example, rounding to the nearest ten thousand:

380,000 - 180,000 = 200,000 shows the answer 195,765 is not unreasonable, but does not highlight the error in the calculation.

378,000 + 183,000 = 195,000 also shows the answer 195,765 is not unreasonable but does not highlight the error in calculation.

378,400 - 182,600 = 195,800

378,380 - 182,580 = 195,800

Addition, Subtraction, Multiplication and Division

Burning up!



Solve Problems

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Write a word problem where the answer involves at least two addition and two subtraction calculations.

Accept problems that involve two addition and two subtraction calculations.



Burning up!



Solve Problems

Solve problems involving addition, subtraction, multiplication and division

Use
$$6593 \div 19 = 347$$
 to solve $17 \times 347 =$

Write a three-step word problem where three different operations must be performed to calculate the answer.

Take two lots of 347 away from 6593. This will leave you with 5899.

5899 and 2000

Accept a word problem that involves using 3 operations to find the answer.

Addition, Subtraction, Multiplication and Division



Methods

Perform mental calculations, including with mixed operations and large numbers

$$395 \times 5 - 945 = 1030$$

$$(9099 - 3000) \div 3 = 2033$$

Addition, Subtraction, Multiplication and Division

Burning up!



Methods

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Explain how the formal long multiplication method compares to an alternative multiplication strategy.

Children explain to one another/teacher according to method taught in class.

REGENT STUDIES
Focused education on life's walk!
www.regentstudies.com

Addition, Subtraction, Multiplication and Division

Burning up!



Methods

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Explain how the formal written method of short division provides an answer as a decimal.

Children explain to one another/teacher according to method taught in class.

Burning up!



Methods

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Explain how the formal written method of short division provides an answer as a decimal. Write two different word problems to explain the two different ways that the remainder can be used.

- 1. The remainder is not used because it is not a complete set or group.
- 2. The remainder needs to be used, although the final group or set is incomplete.

Children explain to one another/teacher according to method taught in class.

